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1908

EDITION

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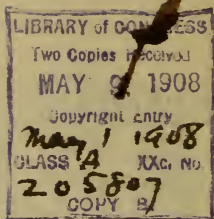
A Classified List of Machinery and Supplies manufactured by advertisers in the Fifth Annual Contractors' Number of The Engineering Record.

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McGraw Publishing Company

Published by
The Engineering Record
239 West 39th St.
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ANNOUNCEMENT.

This booklet is believed to contain the only published directory comprised exclusively of manufacturers of and dealers in engineers' and contractors' machinery and supplies. . . .

It is only fair to state that it is not intended as a complete directory of the trade, but is limited to those whose advertisements appear in the Fifth Annual Contractors' Number of THE ENGINEERING RECORD, April 4, 1908.

No inconsiderable amount of time and expense has been required in the preparation of this directory, whose 20,000-copy circulation is distributed among the regular subscribers to THE ENGINEERING RECORD, and to an additional special list of contractors who received copies of the 1908 Annual Contractors' Number of the paper.

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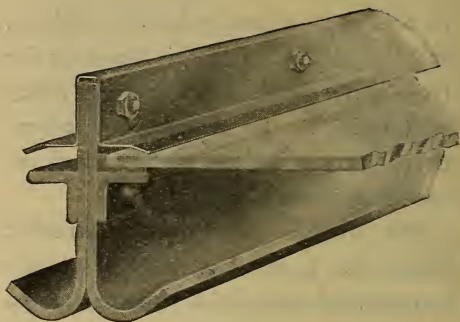
to civil engineering and allied subjects, and the publication of this directory for free distribution is in line with its policy of offering to its readers and advertisers every possible assistance and co-operation in their work.

The strength of THE ENGINEERING RECORD lies in the fact that the subjects in the broad field which it covers are so related to each other that the ambitious beginner, as well as the chief engineer of a railroad, the young draftsman and the mill architect whose work requires a large staff, the man who designs the structural features of small buildings or the largest bridges, the surveyor of a small town or the engineer of a large city, the contractor for small works or the builders of railways and the largest public and private works—all find the paper of material use.

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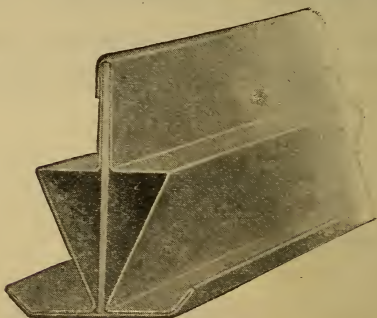


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American Air Compressor Works, 26 Cortlandt St., New York.
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Norwalk Iron Works Co., So. Norwalk, Conn.
Power & Mining Machinery Co., Cudahy, Wis.
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Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ills.
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Mietz, August, 128-138 Mott St., New York.
National Brake & Elec. Co., Milwaukee, Wis.

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Union Steam Pump Co., Battle Creek, Mich.

Air Drills (Electric)

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Ingersoll-Rand Co., 11 Broadway, New York.

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Bury Compressor Co., Erie, Pa.
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Sullivan Machinery Co., Railway Exchange, Chicago, Ill.
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Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.

Aluminum

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Angle Cutters

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Bldg., Chicago, Ill.
Lombard Iron Works & Supply Co., Augusta,
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Mesker & Bro., 421 So. 6th St., St. Louis, Mo.
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apolis, Minn.
Mullins Co., W. H., 342 Franklin St., Salem,
Ohio.
Noelke-Richards Iron Works, Indianapolis, Ind.
Schreiber & Sons Co., L., Cincinnati, Ohio.
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ship Sts., Providence, R. I.
Pittsburg Tubular Steel Whiffletree Co., Pitts-
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Dean Bro.'s Steam Pump Works, Indianapolis, Ind.
Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.
Preslar Prospecting & Engineering Co., Cincinnati, Ohio.
Union Steam Pump Co., Battle Creek, Mich.
U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

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Pels & Co., Henry, 66-68 Broad St., N. Y.

Watson-Stillman Co., The, 26 Cortl'dt St., N.Y.

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Pels & Co., Henry, 66-68 Broad St., N. Y.

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Bacon, Earle C., Havemeyer Bldg., N. Y.

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Nims Concrete Machinery, Philadelphia, N. Y.

Robins Conveying Belt Co., Passaic, N. J.

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National Belting Co., The, Lawrence, Mass. .

Belt Tighteners

Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

Belting Canvas

National Belting Co., The, Lawrence, Mass.

Belting, Chain, Link, Canvas, Etc.

Chain Belt Co., Milwaukee, Wis.

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Lombard Iron Works & Supply Co., Augusta,
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Nims Concrete Machinery, Philadelphia, N. Y.

Robins Conveying Belt Co., Passaic, N. J.

Standard Sand & Machine Co., Cleveland, O.

Webster Mfg. Co., 1075 W. 15th St., Chicago,
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Belts (Stone-Crusher, Endless)

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Pittsburgh Mfg. Co., Pittsburgh, Pa.

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International Electric & Engineering Co., 148 Chambers St., New York.

Lombard Iron Works & Supply Co., Augusta, Ga.

Lufkin Rule Co., The, Saginaw, Mich.

Pels & Co., Henry, 66-68 Broad St., N. Y.

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du Pont de Nemours Powder Co., E. I., Wilmington, Del.

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National Powder Co., 353 Fifth Ave., N. Y.

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Sinnamahoning Powder Mfg. Co., Emporium, Pa.

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Union Iron Works, The, Hoboken, N. J.

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National Fire Proofing Co., 115 Adams St., Chicago, Ills.

Blocks (Gate)

Patterson Co., W. W., Pittsburg, Pa.

Blocks (Pulley)

Patterson Co., W. W., Pittsburg, Pa.

Blocks (Snatch)

Patterson Co., W. W., Pittsburg, Pa.

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Blocks (Tackle)

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Blocks (Wire Rope)

Patterson Co., W. W., Pittsburg, Pa.

Blocks (Wood)

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Green Fuel Economizer Co., Matteawan, N. Y.

International Electric & Engineering Co., 148 Chambers St., New York.

Lawrence Machine Co., Lawrence, Mass.

New York Blower Co., Chicago, Ill.

Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.

Scully Steel & Iron Co., Chicago, Ill.

Sirocco Engineering Co., 138 Cedar St., New York City.

Sturtevant Co., B. F., Hyde Park, Mass.

Taylor Engineering Co., 2 Rector St., N. Y.

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Berger Mfg. Co., The, Canton, O.

General Fireproofing Co., The, Youngstown, O.

Technical Supply Co., 46 East 14th St., N. Y.

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Youngstown Car Mfg. Co., Youngstown, O.

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Blue Prints

Architects & Engineers Supply Co., 1010 Grand Ave., Kansas City, Mo.

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Lunkenheimer Co., Cincinnati, O.

Traylor Engineering Co., 2 Rector St., N. Y.

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Pels & Co., Henry, 66-68 Broad St., N. Y.

Wood & Co., R. D., 400 Chestnut St., Phila., Pa.

Boiler Tubes

Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.

Lombard Iron Works & Supply Co., Augusta, Ga.

Traylor Engineering Co., 2 Rector St., N. Y.

Boilers (Heating)

American Radiator Co., Chicago, Ill.

Andrews & Johnson Co., Chicago, Ill.

Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.

Clow & Sons, James B., Chicago, Ill.

Gurney Heater Mfg. Co., 74 Franklin St., Boston, Mass.

Kewanee Boiler Co., Kewanee, Ill.

Lombard Iron Works & Supply Co., Augusta, Ga.

Sharon Boiler Works, Sharon, Pa.

Traylor Engineering Co., 2 Rector St., N. Y.

Boilers (Hot Water, Copper)

Badger & Sons Co., E. B., 63-75 Pitt St., Boston, Mass.

Mention the "Record" when writing.

Boilers (Steam)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Boilers (Tubular)

Bartlett & Snow Co., C. O., Cleveland, O.
Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.
Carroll-Porter Boiler & Tank Co., Empire
Bldg., Pittsburg, Pa.
Chandler, Geo. M., 42-9 North Illinois St.,
Indianapolis, Ind.
Chicago House Wrecking Co., West 35th &
Iron Sts., Chicago, Ill.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Kewanee Boiler Co., Kewanee, Ill.
Lidgerwood Mfg. Co., 96 Liberty St., N. Y.
Lombard Iron Works & Supply Co., Augusta,
Ga.
Morris & Co., I. P., Philadelphia, Pa.
Petroleum Iron Works Co., The, Sharon, Pa.
Ransome Concrete Machinery Co., Dunellen,
N. J.
Sharon Boiler Works, Sharon, Pa.
Shaw Co., Willis, 171 La Salle St., Chicago, Ill.
Smith & Son Co., Samuel, Paterson, N. J.
Struthers-Wells Co., Warren, Pa.
Sturtevant Mill Co., Harrison Sq., Boston,
Mass.
Tippett & Wood, Phillipsburg, N. J.
Traylor Engineering Co., 2 Rector St., N. Y.
Walsh's Holyoke Steam Boiler Works, Holy-
oke, Mass.

Boilers (Water-Tube)

Babcock & Wilcox Co., 85 Liberty St., N. Y.
Carroll-Porter Boiler & Tank Co., Empire
Bldg., Pittsburg, Pa.
Edge Moor Iron Co., Edge Moor, Delaware.
Granger Co., A. D., 90 West St., N. Y.
Heine Safety Boiler Co., 421 Olive St., St.
Louis, Mo.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Sharon Boiler Works, Sharon, Pa.
Traylor Engineering Co., 2 Rector St., N. Y.

Bolt and Nut Machinery

Scully Steel & Iron Co., Chicago, Ill.

Bolts

Scully Steel & Iron Co., Chicago, Ill.

Bolts (Expansion, Toggle, Etc.)

Belmont Iron Works, 22d St., & Washington
Ave., Philadelphia, Pa.
Lombard Iron Works & Supply Co., Augusta,
Ga.

Bolts (Machine)

Belmont Iron Works, 22d St., & Washington
Ave., Philadelphia, Pa.

Mention the "Record" when writing.

Cleveland City Forge & Iron Co., Cleveland, O.
Pittsburgh Mfg. Co., Pittsburgh, Pa.

Bonds (Contractors')

Brown, Jr., A. S., 85 Water St., Boston, Mass.
Ritch, William T., "Inc.," 1123 B'way N. Y.

Books (Engineering and Technical)

American School of Correspondence, Chicago, Ill.

McGraw Publishing Co., 239 West 39th St., New York.

Van Nostrand & Co., D., 23 Murray St., N. Y.
Wiley & Sons, John, 43-45 E. 19th St., N. Y.

Books (Meter)

Buffalo Meter Co., 290-296 Terrace, Buffalo, N. Y.

Boosters

C. & C. Electric Co., The, Garwood, N. J.

Boots

Rubberhide Co., Essex Bldg., Boston, Mass.

Boots (Elevator)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Boxes (Annealing)

McNeil & Bro. Co., James, Pittsburg, Pa.

Boxes (Dump)

Black Mfg. Co., 124-128 E. Ohio St., Chicago, Ill.

Boxes (Take-Up)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Braces (Extensible)

Kalamazoo Foundry & Machine Co., Kalamazoo, Mich.

Brackets and Cross-Arms

Grosche & Co., Bruno, 23 Jones Lane, N. Y.
Insley Iron Works, Indianapolis, Ind.
Johns-Manville Co., H. W., 100 Wm. St., N.Y.

Brick and Tile

Bayer, J. C., Front & Market Sts., Portland, Oregon.

McAvoy Vitrified Brick Co., 345 Arch St., Philadelphia, Pa.

Metropolitan Paving Brick Co., Canton, Ohio.

Patton Clay Mfg. Co., Patton, Pa.

Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.

Robinson Clay Product Co. of New York, Flatiron Bldg., New York.

Brick (Building and Sewer)

Patton Clay Mfg. Co., Patton, Pa.

Brick Machinery

Green Fuel Economizer Co., Matteawan, N.Y.
Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Mention the "Record" when writing.

Peerless Brick Machine Co., 30 N. 6th St., Minneapolis, Minn.

Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.

Reliance Machine & Tool W'ks, St. Louis, Mo.

Sturtevant Mill Co., Harrison Sq., Boston, Mass.

Brick (Paving)

Patton Clay Mfg. Co., Patton, Pa.

Bridge Builders

Scherzer Rolling Lift Bridge Co., 1616 Monadnock Block, Chicago, Ill.

Terry & Tench Co., "Inc.," 131st St. and Lexington Ave., New York.

Bridge Builders (Steel)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Bridge Engineers

Scherzer Rolling Lift Bridge Co., 1616 Monadnock Block, Chicago, Ill.

Bridge Foundation

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Bridge (Machinery)

Scully Steel & Iron Co., Chicago, Ill.

Bridge Operating Machinery

Mead-Morrison Mfg. Co., Cambridge, Mass.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Scherzer Rolling Lift Bridge Co., 1616 Monadnock Block, Chicago, Ill.

Bridge, Pier and Building Foundations (See Contractors)

Clinton Bridge & Iron Works, Clinton, Ia.

Cullen-Friestedt Co., 1526 Tribune Bldg., Chicago, Ill.

Foundation Co., The, 115 B'way, New York.

Hydrex Felt & Engineering Co., 120 Liberty St., New York.

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Memphis Bridge Co., Memphis, Tenn.

Nims Concrete Machinery, Philadelphia, N. Y.

Pneumatic Caisson Co., Troy, N. Y.

Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.

Raymond Concrete Pile Co., 135 Adams St., Chicago, Ill.

Scully Foundation & Transportation Co., John T., 84 First St., Cambridge, Mass.

Bridge Railings

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.

Stewart Iron Works Co., The, Cincinnati, O.

Mention the "Record" when writing.

Bridges

Scherzer Rolling Lift Bridge Co., 1616 Monadnock Block, Chicago, Ill.

Bridges (Bascule)

American Bridge Co. of New York, 42 B'way, New York.

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Page & Shnable, 1002 Security Bldg., Chicago.

Pennsylvania Steel Co., Philadelphia, Pa.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Scherzer Rolling Lift Bridge Co., 1616 Monadnock Block, Chicago, Ill.

Whitehead & Kales Iron W'ks, Detroit, Mich.

Bridges (Concrete)

Aberthaw Construction Co., 8 Beacon St., Boston, Mass.

Baltimore Bridge Co., Bush St. and B. & O. R.R., Baltimore, Md.

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.

Clinton Bridge & Iron Works, Clinton, Ia.

Concrete-Steel Engineering Co., Park Row Bldg., New York.

Cullen-Friestedt Co., 1526 Tribune Bldg., Chicago, Ill.

Ferro-Concrete Construction Co., The, Richmond and Harriet Sts., Cincinnati, Ohio.

Hennebique Construction Co., 1170 B'way, New York.

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Kosmos Portland Cement Co., "Inc.," 614-616 Paul Jones Bldg., Louisville, Ky.

Maxwell Concrete Steel Co., 516 Penobscot Bldg., Detroit, Mich.

Memphis Bridge Co., Memphis, Tenn.

Nims Concrete Machinery, Philadelphia, N. Y.

Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.

Bridges, Roofs, etc.

American Bridge Co. of New York, 42 B'way, New York.

Atlantic Gulf & Pacific Co., Park Row Bldg., New York.

Baltimore Bridge Co., Bush St. and B. & O. R.R., Baltimore, Md.

Bellefontaine Bridge & Steel Co., Bellefontaine, Ohio.

Belmont Iron Works, 22d St. and Washington Ave., Phila., Pa.

Berlin Construction Co., Berlin, Conn.

Boston Bridge Works, 47 Winter St., Boston.

Champion Bridge Co., Wilmington, Ohio.

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.

Mention the "Record" when writing.

Climax Road Machine Co., Marathon, N. Y.
 Clinton Bridge & Iron Works, Clinton, Ia.
 Cullen-Friedstedt Co., 1526 Tribune Bldg., Chicago, Ill.
 Decatur Bridge Co., Decatur, Ill.
 Eastern Bridge & Structural Co., Worcester, Mass.
 Eichleay, Jr., Co., John, Pittsburg, Pa.
 Giesel Construction Co., 620 Chestnut St., St. Louis, Mo.
 Hydrex Felt & Engineering Co., 120 Liberty St., New York.
 Insley Iron Works, Indianapolis Ind.
 Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.
 Kenwood Bridge Co., 1416 First National Bank Bldg., Chicago, Ill.
 Memphis Bridge Co., Memphis, Tenn.
 Milwaukee Bridge Co., Milwaukee, Wis.
 Noelke-Richards Iron W'ks, Indianapolis, Ind.
 Pennsylvania Bridge Co., Beaver Falls, Pa.
 Pennsylvania Steel Co., Philadelphia, Pa.
 Phoenix Bridge Co., The, 410 Walnut St., Philadelphia, Pa.
 Riter-Conley Mfg. Co., Pittsburg, Pa.
 Riverside Bridge Co., Martin's Ferry, Ohio.
 Scaife & Sons Co., Wm. B., Pittsburg, Pa.
 Scherzer Rolling Lift Bridge Co., 1616 Monadnock Block, Chicago, Ill.
 Schreiber & Sons Co., L., Cincinnati, Ohio.
 Shoemaker & Co., Lewis F., Harrison Bldg., Philadelphia, Pa.
 Snare & Triest Co., The, 143 Liberty St., N. Y.
 Southern Bridge Co., Birmingham, Ala.
 Strauss Bascule & Concrete Bridge Co., 904 Fort Dearborn Bldg., Chicago, Ill.
 Tippet & Wood, Phillipsburg, N. J.
 Virginia Bridge & Iron Co., Roanoke, Va.
 Whitehead & Kales Iron W'ks, Detroit, Mich.
 Wisconsin Bridge & Iron Co., Milwaukee, Wis.

Bridges (Suspension)

American Bridge Co. of New York, 42 B'way, New York.
 Berlin Construction Co., Berlin, Conn.
 Broderick & Bascom Rope Co., St. Louis, Mo.
 Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.
 Leschen & Sons Rope Co., A., St. Louis, Mo.
 Pennsylvania Steel Co., The, Philadelphia, Pa.
 Roebling's Sons Co., John A., Trenton, N. J.

Bronze Founders

American District Steam Co., Lockport, N. Y.
 Dake Engine Co., Grand Haven, Mich.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 Lunkenheimer Co., Cincinnati, Ohio.
 Morris & Co., I. P., Philadelphia, Pa.

Mention the "Record" when writing.

Noelke-Richards Iron W'ks, Indianapolis, Ind.
Schreiber & Sons Co., L., Cincinnati, Ohio.

Buckets

Bergen Point Iron Works, 149 B'way, N. Y.
Williams Co., G. H., Cleveland, Ohio.

Buckets (Bottom Dumping)

Cyclopean Iron Works Co., The, 402-404 Claremont Ave., Jersey City, N. J.

Buckets (Clam Shell)

Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.

Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.

Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.

Cleveland Crane & Car Co., Wickliffe, Ohio.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Kiesler Co., The, 82 Pratt St., Chicago, Ill.

Mead-Morrison Mfg. Co., Cambridge, Mass.

Northern Engineering Works, Detroit, Mich.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Reliance Machine & Tool W'ks, St. Louis, Mo.

Shaw Co., Willis, 171 La Salle St., Chicago, Ill.

Buckets (Concrete)

Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.

Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.

Chain Belt Co., Milwaukee, Wis.

Chandler, Geo. M., 42-9 Illinois St., Indianapolis, Ind.

Cleveland Crane & Car Co., Wickliffe, Ohio.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Cyclopean Iron Works Co., The, 402-404 Claremont Ave., Jersey City, N. J.

East Jersey Pipe Co., 90 West St., New York.

Hayward Co., The, 97 Cedar St., New York.

Insley Iron Works, Indianapolis, Ind.

Kiesler Co., The, 82 Pratt St., Chicago, Ill.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Northern Engineering Works, Detroit, Mich.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Ransome Concrete Machinery Co., Dunellen, N. J.

Reliance Machine & Tool W'ks, St. Louis, Mo.

Stuebner Iron Works, G. L., foot of 12th St., Long Island City, N. Y.

Union Iron Works, The, Hoboken, N. J.

Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Youngstown Car Mfg. Co., Youngstown, O.

Mention the "Record" when writing.

Buckets (Dredging and Excavating)

Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.
Bucyrus Co., The, South Milwaukee, Wis.
Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.
Cleveland Crane & Car Co., Wickliffe, Ohio.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Hayward Co., The, 97 Cedar St., New York.
Kiesler Co., The, 82 Pratt St., Chicago, Ill.
Leschen & Sons Rope Co., A., St. Louis, Mo.
Mead-Morrison Mfg. Co., Cambridge, Mass.
Page & Shnable, 1002 Security Bldg., Chicago.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.
Reliance Machine & Tool W'ks, St. Louis, Mo.
Union Iron Works, The, Hoboken, N. J.
Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.
Wetherill Bros. Machine Co., Chester, Pa.
Wonham-Magor Engineering Works, 29 B'way, New York.

Buckets (Dumping)

Allis-Chalmers Co., Milwaukee, Wis.
American Hoist & Derrick Co., St. Paul, Minn.
Broderick & Bascom Rope Co., St. Louis, Mo.
Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
East Jersey Pipe Co., 90 West St., New York.
Hayward Co., The, 97 Cedar St., New York.
Insley Iron Works, Indianapolis, Ind.
Kiesler Co., The, 82 Pratt St., Chicago, Ill.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
Northern Engineering Works, Detroit, Mich.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Reliance Machine & Tool W'ks, St. Louis, Mo.
Stuebner Iron Works, G. L., foot of 12th St., Long Island City, N. Y.
Union Iron Works, The, Hoboken, N. J.
Whitehead & Kales Iron W'ks, Detroit, Mich.
Wiener Co., Ernst, 168 Morris Bldg., N. Y.
Wonham-Magor Engineering Works, 29 B'way, New York.
Youngstown Car Mfg. Co., Youngstown, Ohio.

Buckets (Elevator)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Mention the "Record" when writing.

Buckets (Excavating)

Stuebner Iron Works, G. L., foot of 12th St.,
Long Island City, N. Y.

Buckets (Orange Peel)

Brown Hoisting Machinery Co., The, 4403 St.
Clair Ave., Cleveland, Ohio.

Chandler, Geo. M., 42-9 N. Illinois St., In-
dianapolis, Ind.

Contractors Supply & Equipment Co., 300 Old
Colony Bldg., Chicago, Ill.

Hayward Co., The, 97 Cedar St., New York.

Hough Co., William B., 1336-7 Monadnock
Block, Chicago, Ill.

Kiesler Co., The, 82 Pratt St., Chicago, Ill.

Reliance Machine & Tool W'ks, St. Louis, Mo.

Shaw Co., Willis, 171 La Salle St., Chicago, Ill.

Building Blocks

Ashland Steel Range & Mfg. Co., The, Ash-
land, Ohio.

Hydraulic Concrete Mach. Co., Buffalo, N. Y.

Patton Clay Mfg. Co., Patton, Pa.

N. Y. State Sewer Pipe Co., Rochester, N. Y.

Robinson Clay Product Co., of N. Y. Flat Iron
Bldg., New York.

Building-Block Machinery

Ashland Steel Range & Mfg. Co., The, Ash-
land, Ohio.

Hydraulic Concrete Machine Co., Buffalo, N.Y.

Peerless Brick Machine Co., 30 North 6th
St., Minneapolis, Minn.

Standard Sand & Machine Co., Cleveland, O.

Sturtevant Mill Co., Harrison Sq., Boston,
Mass.

Building Foundation

Jackson, George W., "Inc.," 169-179 W. Jack-
son Boulevard, Chicago, Ill.

Building Material (See Also Ce- ment)

Chicago House Wrecking Co., West 35th &
Iron Sts., Chicago, Ill.

Concrete-Steel Engineering Co., Park Row
Bldg., N. Y.

Decatur Bridge Co., Decatur, Ill.

General Fireproofing Co., Youngstown, O.

Johns-Manville Co., H. W., 100 William St.,
New York City.

Lawrence Cement Co., 1 B'way, New York.

National Fire Proofing Co., 115 Adams St.,
Chicago, Ill.

Penna. Cement Co., 26 Cortlandt St., N. Y.

Portland Iron & Steel Co., Board of Trade
Building, Boston, Mass.

Potomac Dredging Co., 24-25 Home Life Bldg.,
Washington, D. C.

Robinson Clay Product Co., of N. Y. Flat
Iron Bldg., New York.

Mention the "Record" when writing.

Standard Concrete Steel Co., 31st, 32d Sts.,
East River, New York.

Trussed Concrete Steel Co., Detroit, Mich.

Warner Co., Charles, Wilmington, Del.

Warren-Ehret Co., 1203 Land Title Bldg., Phila-
delphia, Pa.

Building Papers

Barrett Mfg. Co., New York & Chicago.

Bayer, J. C., Front & Market Sts., Portland,
Ore.

Chicago House Wrecking Co., West 35th &
Iron Sts., Chicago, Ill.

Hydrex Felt & Engineering Co., 120 Liberty
St., New York.

Johns-Manville Co., H. W., 100 William St.
New York City.

Warren-Ehret, Co., 1204 Land Title Bldg., Phila-
delphia, Pa.

Building Reports

Dodge Co., F. W., 11 East 24th St., N. Y.

Buildings

Riverside Bridge Co., Martins Ferry, O.

Buildings (Steel, Mill, Etc.)

Baltimore Bridge Co., Bush St. & B. & O. R.
R., Baltimore, Md.

Bulldozers

Scully Steel & Iron Co., Chicago, Ill.

Bumping Posts

Indianapolis Switch & Frog Co., Springfield, O.

Cables (Drilling)

Leschen & Sons Rope Co., A., St. Louis, Mo.

Cables (Manila)

American Mfg. Co., 65 Wall St., N. Y.

Cableways

Broderick & Bascom Rope Co., St. Louis, Mo.

Brown Hoisting Machinery Co., 4403 St. Clair
Ave., Cleveland, Ohio.

Carson Trench Machine Co., 16 Dorrance St.,
Boston, Mass.

Chandler, Geo. M., 42-9 North Illinois St.,
Indianapolis, Ind.

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Hayward Co., The, 97 Cedar St., N. Y.

International Electric & Engineering Co., 148
Chamber St., New York.

Kiesler Co., The, 82 Pratt St., Chicago, Ill.

Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.

Leschen & Sons Rope Co., A., St. Louis, Mo.

Lidgerwood Mfg. Co., 96 Liberty St., N. Y.

Mead-Morrison Mfg., Co., Cambridge, Mass.

New York Cableway & Engineering Co., 2
Rector St., New York.

Reliance Machine & Tool Works, St. Louis, Mo.

Roebbling's Sons Co., John A., Trenton, N. J.

Mention the "Record" when writing.

Shaw Co.; Willis, 171 La Salle St., Chicago.
Wiener Company, Ernst, 168 Morris Bldg., N.Y.
Youngstown Car Mfg. Co., Youngstown, O.

Caisson Cylinders

East Jersey Pipe Co., 90 West St., N. Y.
Graver Tank W'ks, Wm., East Chicago, Ind.
Jackson, George W., "Inc.," 169-179 West
Jackson Boulevard, Chicago, Ill.
Petroleum Iron Works Co., The, Sharon, Pa.
Pneumatic Caisson Co., Troy, N. Y.
Riter-Conley Mfg. Co., Pittsburg, Pa.

Caisson, Cylinders (Wooden)

Baltimore Cooperage Co., Baltimore, Md.
Lombard Iron W'ks & Supply Co., Augusta, Ga.

Caisson Foundations

Jackson, George W., "Inc.," 169-179 West
Jackson Boulevard, Chicago, Ill.
O'Rourke Engineering Construction Co., 345
Fifth Ave., New York.
Pneumatic Caisson Co., Troy, N. Y.
Wemlinger Steel Piling Co., 11 B'way, N. Y.

Caissons

East Jersey Pipe Co., 90 West St., N. Y.
Foundation Co., The, 11b B'way, N. Y.
Jackson, George W., Inc., 169-179 W. Jackson
Boulevard, Chicago, Ill.
O'Rourke Engineering Construction Co., 345
Fifth Ave., New York.
Petroleum Iron Works, Co., The, Sharon, Pa.
Pneumatic Caisson Co., Troy, N. Y.
Wemlinger Steel Piling Co., 11 B'way, N. Y.
Wood & Co., R. D., 400 Chestnut St., Phila., Pa.

Calking Tools

Scully Steel & Iron Co., Chicago, Ill.

Candle (Wicking)

Leschen & Sons Rope Co., A., St. Louis, Mo.

Canvas Waterproofing

Elaterite Paint & Mfg. Co., Des Moines, Ia.

Car Barns

Riverside Bridge Co., Martins Ferry, Ohio.

Car Couplers, Fenders, Parts, Fittings and Car Wheels

Broderick & Bascom Rope Co., St. Louis, Mo.
Douglas, Geo. B., 29 B'way, New York.
Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.
Prosser & Sons, Thos. ("Krupp"), 15 Gold St.,
New York.
Wiener Company, Ernst, 168 Morris Bldg., N.Y.
Wonham-Magor Engineering Works, 29 B'way,
New York.

Youngstown Car Mfg. Co., Youngstown, O.

Car Heating and Lighting

Johns-Manville Co., H. W., 100 Wm. St., N. Y.

Mention the "Record" when writing.

Car Movers

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Car Movers and Pushers

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Car Replacers

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Carbolineum

Carbolineum Wood Preserving Co., 60 Wall St., New York.

Grosche & Co., Bruno, 23 Jones Lane, N. Y.

McKinney Co., C. S., 60 Wall St., N. Y.

Cars

Bergen Point Iron Works, 149 B'way, N. Y.

Chandler, Geo. M., 42-9 North Illinois St., Indianapolis, Ind.

Continental Car & Equipment Co., 17 Battery Place, New York.

Davenport Locomotive Works, Davenport, Ia.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Mead-Morrison Mfg., Co., Cambridge, Mass.

Traylor Engineering Co., 2 Rector St., N. Y.

Union Iron Works, The, Hoboken, N. J.

Wiener Company, Ernst, 168 Morris Bldg., N.Y.

Wonham-Magor Engineering Works, 29 B'way, New York.

Youngstown Car Mfg. Co., Youngstown, O.

Cars (Ballast)

Continental Car & Equipment Co., 17 Battery Place, N. Y.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Union Iron Works, The, Hoboken, N. J.

Wiener Company, Ernst, 168 Morris Bldg., N.Y.

Wonham-Magor Engineering Works, 29 B'way, New York.

Youngstown Car Mfg. Co., Youngstown, O.

Cars (Bridge Gang)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Cars (Coal)

Wiener Company, Ernst, 168 Morris Bldg., N.Y.

Cars (Concrete)

Continental Car & Equipment Co., 17 Battery Place, New York.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Mention the "Record" when writing.

Stuebner Iron Works, G. L., Foot of 12th St.,
Long Island City, New York.

Union Iron Works, The, Hoboken, N. J.

Wiener Company, Ernst, 168 Morris Bldg., N.Y.

Wonham-Magor Engineering Works, 29 B'way,
New York.

Youngstown Car Mfg., Co., Youngstown, O.

Cars (Derrick, Self-Propelling)

Byers Machine Co., The John F., Ravenna, O.

Cars (Dumping)

Allis-Chalmers Co., Milwaukee, Wis.

Bacon, Earle C., Havemeyer Bldg., N. Y.

Continental Car & Equipment Co., 17 Battery
Pl., New York.

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Shaw Co., Willis, 171 La Salle St., Chicago, Ill.

Traylor Engineering Co., 2 Rector St., N. Y.

Union Iron Works, The, Hoboken, N. J.

Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Wonham-Magor Engineering Works, 29 B'way,
New York.

Youngstown Car Mfg. Co., Youngstown, O.

Cars (Elevator)

Darby & Sons Co., "Inc.," Edw., Phila., Pa.

Cars (Flat)

Continental Car & Equipment Co., 17 Battery
Pl., New York.

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Northern Engineering Works, Detroit, Mich.

Union Iron Works, The, Hoboken, N. J.

Wiener Company, Ernst, 168 Morris Bldg., N.Y.

Wonham-Magor Engineering Works, 29 B'way,
New York.

Youngstown Car Mfg. Co., Youngstown, O.

Cars (Gasoline Motor)

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Cars (Hand and Push)

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Cars (Industrial)

Chicago House Wrecking Co., West 35th &
Iron Sts., Chicago, Ill.

Continental Car & Equipment Co., 17 Battery
Place, N. Y.

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Mention the "Record" when writing.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
 Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 Mead-Morrison Mfg. Co., Cambridge, Mass.
 Northern Engineering Works, Detroit, Mich.
 Stuebner Iron Works, G. L., Foot of 12th St., Long Island City, New York.
 Union Iron Works, The, Hoboken, N. J.
 Whitehead & Kales Iron Works, Detroit, Mich.
 Wiener Company, Ernst, 168 Morris Bldg., N.Y.
 Wonham-Magor Engineering Works, 29 B'way, New York.
 Youngstown Car Mfg. Co., Youngstown, O.

Cars (Inspection)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Cars (Mining)

Allis-Chalmers Co., Milwaukee, Wis.
 Bacon, Earle C., Havemeyer Bldg., N. Y.
 Continental Car & Equipment Co., 17 Battery Pl., New York.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 Northern Engineering Works, Detroit, Mich.
 Power & Mining Machinery Co., Cudahy, Wis.
 Traylor Engineering Co., 2 Rector St., N. Y.
 Union Iron Works, The, Hoboken, N. J.
 Wiener Company, Ernst, 168 Morris Bldg., N.Y.
 Wonham-Magor Engineering Works, 29 B'way, New York.
 Youngstown Car Mfg. Co., Youngstown, O.

Cars, Second-Hand (See Second-Hand Machinery)

Continental Car & Equipment Co., 17 Battery Place, New York.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.
 Shaw Co., Willis, 171 La Salle St., Chicago, Ill.

Cars (Steam-Shovel)

Continental Car & Equipment Co., 17 Battery Place, New York.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 Wiener Company, Ernst, 168 Morris Bldg., N. Y.
 Wonham-Magor Engineering Works, 29 B'way, New York.
 Youngstown Car Mfg., Co., Youngstown, O.

Mention the "Record" when writing.

Cars (Tank)

Graver Tank Works, Wm., East Chicago, Ind.
Wiener Co., Ernst, 168 Morris Bldg., N. Y.
Wonham-Magor Engineering Works, 29 B'way,
New York.

Cars (Tower)

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Cars (Velocipede)

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Cars (Wrecking and Ditching)

Bucyrus Co., The, South Milwaukee, Wis.
Youngstown Car Mfg. Co., Youngstown, Ohio.

Carts and Wagons (Ash and Dump)

Builders. Iron Foundry, 9 Coddling St., Providence, R. I.
Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.
Climax Road Machine Co., Marathon, N. Y.
Columbia Wagon Co., Columbia, Pa.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Indiana Road Machine Co., Fort Wayne, Ind.
Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburgh, Pa.
Pittsburg Tubular Steel Whiffletree Co., Pittsburgh, Pa.
Troy Wagon Works Co., The, Troy, Ohio.
Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Carts (Concrete)

Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Hough Co., Wm. B., 1336-7 Monadnock Block, Chicago, Ill.
Koehring Machine Co., Milwaukee, Wis.
Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburgh, Pa.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Ransome Concrete Machinery Co., Dunellen, N. J.
Sterling Wheelbarrow Co., Milwaukee, Wis.
Stuebner Iron Works, G. L., foot of 12th St., Long Island City, N. Y.
Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Castings (Cast-Iron)

Lynchburg Foundry Co., Lynchburg, Va.
McWane Pipe Works, 220 B'way, New York.

Castings (Grey Iron)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Mention the "Record" when writing.

Castings (Iron)

- American Bridge Co. of New York, 42 B'way,
New York.
American Cast-Iron Pipe Co., Birmingham,
Ala.
Belmont Iron Works, 22d St. and Washington
Ave., Philadelphia, Pa.
Chain Belt Co., Milwaukee, Wis.
Dake Engine Co., Grand Haven, Mich.
Dimmick Pipe Co., Birmingham, Ala.
Dobbie Foundry & Machine Co., Niagara
Falls, N. Y.
Donaldson Iron Co., Emaus, Lehigh Co., Pa.
Douglas, Geo. B., 29 B'way, New York.
Douglas, W. & B., Middletown, Conn.
Fox & Co., John, 253 B'way, New York.
Green Engineering Co., Commercial National
Bank Bldg., Chicago, Ill.
Lake Erie Engineering Works, Buffalo, N. Y.
Lombard Iron Works & Supply Co., Augusta,
Ga.
Lunkenheimer Co., Cincinnati, Ohio.
Massillon Iron & Steel Co., Massillon, Ohio.
Mesker & Bro., 421 So. 6th St., St. Louis, Mo.
Morris & Co., I. P., Philadelphia, Pa.
Noelke-Richards Iron W'ks, Indianapolis, Ind.
Pennsylvania Steel Co., The, Philadelphia, Pa.
Pittsburgh Mfg. Co., Pittsburgh, Pa.
Raquette Foundry & Supply Co., Massena,
N. Y.
Robins Conveying Belt Co., Passaic, N. J.
Schreiber & Sons Co., L., Cincinnati, Ohio.
Union Iron Works, The, Hoboken, N. J.
U. S. Cast Iron Pipe & Foundry Co., 71
B'way, New York.
U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.
Valley Iron Works, Williamsport, Pa.
Williamson Bros. Co., Aramingo Ave. and
Cumberland St., Philadelphia, Pa.
Wood & Co., R. D., 400 Chestnut St., Philadel-
phia, Pa.
Youngstown Car Mfg. Co., Youngstown, Ohio.

Castings (Machinery)

- Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

Castings (Malleable-Iron)

- Chisholm & Moore Mfg. Co., Cleveland, Ohio.
Janney, Steinmetz & Co., Philadelphia, Pa.

Castings (Railroad)

- Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

Castings (Steel)

- American Bridge Co. of New York, 42 B'way,
New York.

Mention the "Record" when writing.

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.
Douglas, Geo. B., 29 B'way, New York.
Pennsylvania Steel Co., The, Philadelphia, Pa.
Union Iron Works, The, Hoboken, N. J.

Cattle Guards (Steel)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Cattle Guards (Wood)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Ceiling and Siding (Iron and Steel)

Scully Steel & Iron Co., Chicago, Ill.

Ceiling (Sheet Steel)

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Cement

Alma Cement Co., Wellston, Ohio.
Alpha Portland Cement Co., Easton, Pa.
Alsens Portland Cement Co., 45 B'way, N. Y.
American Cement Co., 603-10 Pennsylvania Bldg., Philadelphia, Pa.
Atlas Portland Cement Co., The, 30 Broad St., New York.
Cayuga Lake Cement Co., Ithaca, N. Y.
Chicago House Wrecking Co., W. 35th and Iron Sts., Chicago, Ill.
Chicago Portland Cement Co., Chicago Stock Exchange, Chicago, Ill.
Clow & Sons, James B., Chicago, Ill.
Connelly Construction Co., El Reno, Okla.
Consolidated Rosendale Cement Co., 26 Cortlandt St., New York.
Coplay Cement & Mfg. Co., Pennsylvania Bldg., Philadelphia, Pa.
Dexter Portland Cement, York Ave., 4th and Callowhill Sts., Philadelphia, Pa.
Douglas, Geo. B., 29 B'way, New York.
Edison Portland Cement Co., The, 1133 B'way, New York.
Fredenburg & Lounsbury, 289 4th Ave., N. Y.
French & Co., Samuel H., York Ave., 4th and Callowhill Sts., Philadelphia, Pa.
Glens Falls Portland Cement Co., 156 Fifth Ave., New York.
Hartranft Cement Co., Wm. G., Real Estate Trust Bldg., Philadelphia, Pa.
Ironton Portland Cement Co., Ironton, Ohio.
Johns-Manville Co., H. W., 100 Wm. St., N. Y.
Kosmos Portland Cement Co., "Inc.," 614-616 Paul Jones Bldg., Louisville, Ky.
Lawrence Cement Co., 1 B'way, N. Y.
Lehigh Portland Cement Co., Allentown, Pa.
Marquette Cement Mfg. Co., Chicago, Ill.
National Fire Proofing Co., 115 Adams St., Chicago, Ill.

Mention the "Record" when writing.

Omega Portland Cement Co., Jonesville, Mich.
 Peninsula Portland Cement Co., Jackson, Mich.
 Pennsylvania Cement Co., 26 Cortlandt St.,
 New York.
 Portland Iron & Steel Co., Board of Trade
 Bldg., Boston, Mass.
 Potomac Dredging Co., 24-25 Home Life Bldg.,
 Washington, D. C.
 Robinson Clay Product Co. of New York,
 Flatiron Bldg., New York.
 St. Louis Portland Cement Co., St. Louis, Mo.
 Standard Concrete Steel Co., 31st and 32d Sts.,
 East River, New York.
 Superior Portland Cement Co., Charleston, W.
 Va.
 Trussed Concrete Steel Co., Detroit, Mich.
 Universal Portland Cement Co., Chicago, Ill.
 Upton, F. R., 9 Clinton St., Newark, N. J.
 Vulcanite Portland Cement Co., Land Title
 Bldg., Philadelphia, Pa.
 Warner Co., Charles, Wilmington, Del.
 Warren-Ehret Co., 1204 Land Title Bldg., Phil-
 adelphia, Pa.
 Winslow Co., E. J., 138 Jackson Boulevard,
 Chicago, Ill.
 Wolverine Portland Cement Co., Coldwater,
 Mich.

Cement Block Machines

Ashland Steel Range & Mfg. Co., The, Ash-
 land, Ohio.
 Century Cement Machine Co., 186 W. Main
 St., Rochester, N. Y.
 Hydraulic Concrete Mach. Co., Buffalo, N. Y.
 Peerless Brick Machine Co., 30 N. 6th St.,
 Minneapolis, Minn.
 Standard Sand & Machine Co., Cleveland, O.

Cement Brick Machines

Peerless Brick Machine Co., 30 N. 6th St.,
 Minneapolis, Minn.

Cement Machinery

Allis-Chalmers Co., Milwaukee, Wis.
 Ashland Steel Range & Mfg. Co., The, Ash-
 land, Ohio.
 Atlas Dryer Co., The, Cleveland, Ohio.
 Austin Manufacturing Co., Chicago, Ill.
 Bacon, Earle C., Havemeyer Bldg., New York.
 Bartlett & Snow Co., C. O., Cleveland, Ohio.
 Bradley Pulverizer Co., 92 State St., Boston.
 Chandler, Geo. M., 42-9 N. Illinois St., In-
 dianapolis, Ind.
 Connelly Construction Co., El Reno, Okla.
 Cresson Co., Geo. V., Philadelphia, Pa.
 Cummer & Sons Co., F. D., 413 Arcade, Cleve-
 land, Ohio.
 Dunning, W. D., Water St., Syracuse, N. Y.
 Foote Concrete Machinery Co., 184 La Salle
 St., Chicago, Ill.

Mention the "Record" when writing.

Fuller Engineering Co., Allentown National Bank Bldg., Allentown, Pa.
 Kent Mill Co., 170 B'way, New York.
 Koehring Machine Co., Milwaukee, Wis.
 Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.
 Lehigh Car, Wheel & Axle Works, Catasauqua, Pa.
 Peerless Brick Machine Co., 30 N. 6th St., Minneapolis, Minn.
 Power & Mining Machinery Co., Cudahy, Wis.
 Prosser & Sons, Thos. ("Krupp"), 15 Gold St., New York.
 Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.
 Smidth & Co., F. L., 39-41 Cortlandt St., N. Y.
 Standard Sand & Machine Co., Cleveland, O.
 Sturtevant Mill Co., Harrison Sq., Boston.
 Traylor Engineering Co., 2 Rector St., N. Y.
 Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.
 Wilcox Co., W. H., Binghamton, N. Y.

Cement Mixers

Ashland Steel Range & Mfg. Co., The, Ashland, Ohio.
 Chain Belt Co., Milwaukee, Wis.
 Foote Concrete Machinery Co., 184 La Salle St., Chicago, Ill.
 Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
 Koehring Machine Co., Milwaukee, Wis.
 Municipal Engineering & Contracting Co., Jackson Boulevard and Mich. Ave., Chicago.
 Nims Concrete Machinery, Philadelphia, N. Y.
 Shaw Co., Willis, 171 La Salle St., Chicago, Ill.
 Standard Sand & Machine Co., Cleveland, O.
 Wilcox Co., W. H., Binghamton, N. Y.
 Youngstown Car Mfg. Co., Youngstown, Ohio.

Cement (Stainless White)

Warner Co., Charles, Wilmington, Del.

Cement Testing Machines

Ransome Concrete Machinery Co., Dunellen, N. J.

Cement Walk Tools

Century Cement Machine Co., 186 W. Main St., Rochester, N. Y.
 Connelly Construction Co., El Reno, Okla.
 Perrin, Seamans & Co., 57 Oliver St., Boston.

Cement Waterproofing

Elaterite Paint & Mfg. Co., Des Moines, Ia.
 Grosche & Co., Bruno 23 Jones Lane, N. Y.
 Hydrex Felt & Engineering Co., 120 Liberty St., New York.
 Johns-Manville Co., H. W., 100 Wm. St., N. Y.
 Standard Asphalt & Rubber Co., 944 First National Bank Bldg., Chicago, Ill.

Mention the "Record" when writing.

Warner Co., Charles, Wilmington, Del.
Warren-Ehret Co., 1204 Land Title Bldg.,
Philadelphia, Pa.
Winslow Co., E. J., 138 Jackson Boulevard,
Chicago, Ill.

Cement Weighing Machines

Richardson Scale Co., 3 Park Row, New York.

Centers, Collapsible (Common)

Blaw Collapsible Steel Centering Co., West-
inghouse Bldg., Pittsburg, Pa.
Pittsburgh Mfg. Co., Pittsburgh, Pa.

Centers (Steel)

Blaw Collapsible Steel Centering Co., West-
inghouse Bldg., Pittsburg, Pa.
Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.

Centrifugal Air Compressors (Mo- tors and Steam Turbine-Driven)

General Electric Co., Schenectady, N. Y.

Chains (Common)

Chain Belt Co., Milwaukee, Wis.
Indianapolis Switch & Frog Co., Springf'd, O.
Leschen & Sons Rope Co., A., St. Louis, Mo.
Lombard Iron Works & Supply Co., Augusta,
Ga.
Patterson Co., W. W., Pittsburg, Pa.
Reading Crane & Hoist Works, Reading, Pa.

Chains (Sprocket)

Chain Belt Co., Milwaukee, Wis.
Lombard Iron Works & Supply Co., Augusta,
Ga.
Morse Chain Co., Ithaca, N. Y.
Standard Sand & Machine Co., Cleveland, O.
Webster Mfg. Co., 1075 W. 15th St., Chicago,
Ill.; 88-90 Reade St., New York.

Channelers

Sullivan Machinery Co., Railway Exchange,
Chicago, Ill.

Channelers (Air, Electric, Air or Steam)

Ingersoll-Rand Co., 11 Broadway, New York.

Chemical Engines

Kanawha Chemical Engine Mfg. Co., Charles-
ton, W. Va.

Chemical Engines (Stationary Ap- paratus)

Kanawha Chemical Engine Mfg. Co., Charles-
ton, W. Va.

Chemists

McKenna, Chas. F., Hudson Terminal Bldg.,
New York.

Chimneys

Granger Co., A. D., 90 West St., N. Y.
Kellogg Co., M. W., 143 Liberty St., N. Y.

Mention the "Record" when writing.

Chimneys (Concrete)

- Aberthaw Construction Co., 8 Beacon St., Boston, Mass.
Custodis Chimney Construction Co., Alphons, Bennett Bldg., New York.
Hennebique Construction Co., 1170 B'way, New York.
Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.
Weber Steel Concrete Chimney Co., Marquette Bldg., Chicago, Ill.

Chimneys (Iron and Steel)

- Scully Steel & Iron Co., Chicago, Ill.

Chimneys or Perforated Radial Bricks

- Custodis Chimney Construction Co., Alphons, Bennett Bldg., New York.
Heinicke, H. R., 147 Fourth Ave., N. Y.

Chimneys (Steel)

- Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.
Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.
Graver Tank Works, Wm., East Chicago, Ind.
McNeil & Bro., Co., James, Pittsburg, Pa.
Petroleum Iron Works Co., The, Sharon, Pa.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Schreiber & Son Co., L., Cincinnati, Ohio.
Struthers-Wells Co., Warren, Pa.
Tippett & Wood, Phillipsburg, N. J.
Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.

Chimney Tops (Vitrified Clay)

- Patton Clay Mfg. Co., Patton, Pa.

Clamps (Bridge)

- Leschen & Sons Rope Co., A., St. Louis, Mo.
Riverside Bridge Co., Martins Ferry, Ohio.

Clamps (Wire-Rope)

- Leschen & Sons Rope Co., A., St. Louis, Mo.
Scully Steel & Iron Co., Chicago, Ill.

Cleaners (Flue)

- Scully Steel & Iron Co., Chicago, Ill.

Clevis Nuts

- Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.
Cleveland City Forge & Iron Co., Cleveland, O.
Indianapolis Switch & Frog Co., Springfield, O.
Pittsburg Mfg. Co., Pittsburg Pa.

Clips (Wire-Rope)

- American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.
Leschen & Sons Rope Co., A., St. Louis, Mo.

Clutches (Friction)

- Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Mention the "Record" when writing.

Coal and Ore-Handling Machinery

Allis-Chalmers Co., Milwaukee, Wis.
Atlas Dryer Co., The, Cleveland, Ohio.
Bacon, Earle C., Havemeyer Bldg., N. Y.
Bellefontaine Bridge & Steel Co., Bellefontaine, Ohio.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Chain Belt Co., Milwaukee, Wis.
Cresson Co., Geo. V., Philadelphia, Pa.
Hayward Co., The, 97 Cedar St., New York.
Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.
Lidgerwood Manufacturing Co., 96 Liberty St., New York.
Mead Morrison Mfg. Co., Combridge, Mass.
Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.
Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.
Robins Conveying Belt Co., Passaic, N. J.
Shaw Co., Willis, 171 La Salle St., Chicago, Ill.
Sullivan Machinery Co., Railway Exchange, Chicago, Ill.
Traylor Engineering Co., 2 Rector St., N. Y.
Union Iron Works, The, Hoboken, N. J.
Webster Mfg. Co., 1075 West 15th St., Chicago, Ill.; 88-90 Reade St., New York.
Wiener Company, Ernst, 168 Morris Bldg., N.Y.
Wonham-Magor Engineering Works, 29 B'way, New York.

Coal Tipples

Riverside Bridge Co., Martins Ferry, Ohio.

Coatings (Protective)

Standard Asphalt & Rubber Co., 944 First Nat'l Bank Bldg., Chicago, Ill.

Cofferdams

Foundation Co., The, 115 B'way, New York.

Columns

Riverside Bridge Co., Martins Ferry, Ohio.

Compressed-Air Tools

Scully Steel & Iron Co., Chicago, Ill.

Compressors (Air)

Scully Steel & Iron Co., Chicago, Ill.

Concrete

Foundation Co., The, 115 B'way, New York.

Concrete Barrows (Charging)

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Roehring Machine Co., Milwaukee, Wis.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburgh, Pa.

McCoy Co., Henry J., 65-67 Dey St., N. Y.
Perrin, Seamans & Co., 57 Oliver St., Boston.

Mention the "Record" when writing.

Ransome Concrete Machinery Co., Dunellen,
N. J.
Sterling Wheelbarrow Co., Milwaukee, Wis.
Stuebner Iron Works, G. L., Foot of 12th St.,
Long Island City, N. Y.
Union Iron Works, The, Hoboken, N. J.
Wiener Company, Ernst, 168 Morris Bldg., N.Y.

Concrete Block Machines

Ashland Steel Range & Mfg. Co., The, Ash-
land, Ohio.
Century Cement Machine Co., 186 West Main
St., Rochester, N. Y.
Peerless Brick Machine Co., 30 North 6th St.,
Minneapolis, Minn.
Standard Sand & Machine Co., Cleveland, O.

Concrete Construction

Aberthaw Construction Co., 8 Beacon St., Bos-
ton, Mass.
Ambursen Hydraulic Construction Co., 176
Federal St., Boston, Mass.
American Concrete-Steel Co., Union Bldg.,
Newark, N. J.
Bunting Co., J. E., Flat Iron Bldg., N. Y.
Clinton Wire Cloth Co., Clinton, Mass.
Concrete Asso. of Am., Brunswick Bldg., N.Y.
Concrete-Steel Engineering Co., Park Row
Bldg., New York.
Cullen-Friestedt Co., 1526 Tribune Bldg., Chi-
cago, Ill.
Ferro-Concrete Construction Co., Richmond &
Harriet Sts., Cincinnati, Ohio.
Foundation Co., The, 115 B'way, N. Y.
General Fireproofing Co., The, Youngstown, O.
Goff-Horner & Co., "Ltd.," Frick Bldg., Pitts-
burg, Pa.
Hallberg System, 84 La Salle St., Chicago, Ill.
Holland Construction Co., West New Brighton,
New York.
Jackson, George W., "Inc.," 169-179 W. Jackson
Boulevard, Chicago, Ill.
Lawrence Cement Co., 1 B'way, New York.
Maxwell Concrete Steel Co., Penobscot Bldg.,
Detroit, Mich.
Nims Concrete Machinery, Philadelphia; N. Y.
Noelke-Richards Iron Works, Indianapolis,
Ind.
Pneumatic Caisson Co., Troy, N. Y.
Potomac Dredging Co., 24-25 Home Life Bldg.,
Washington, D. C.
Raymond Concrete Pile Co., 135 Adams St.,
Chicago, Ill.
Rodgers Company, The, Monadnock Block,
Chicago, Ill.
Roebling Construction Co., The, Fuller Bldg.,
B'way & 23d St., New York.
Standard Concrete Steel Co., 31st, 32d Sts.,
East River, New York.
Trussed Concrete Steel Co., Detroit, Mich.

Mention the "Record" when writing.

Turner Construction Co., 11 B'way, New York.
Turner-Forman Concrete Steel Co., 1201 Chestnut St., Philadelphia, Pa.
Weber Steel Concrete Chimney Co., Marquette Bldg., Chicago, Ill.

Concrete Engineers (Reinforced)

Aberthaw Construction Co., 8 Beacon St., Boston, Mass.
Ambursen Hydraulic Construction Co., 176 Federal St., Boston, Mass.
American Concrete-Steel Co., Union Bldg., Newark, N. J.
American System of Reinforcing, 189 La Salle St., Chicago, Ill.
Associated Expanded Metal Cos., 221 Fifth Ave., New York.
Concrete-Steel Engineering Co., Park Row Bldg., New York.
Cullen-Friedstedt Co., 1526 Tribune Bldg., Chicago, Ill.
Expanded Metal & Corrugated Bar Co., Frisco Bldg., St. Louis, Mo.
General Fireproofing Co., The, Youngstown, O.
Goff-Horner & Co., "Ltd.," Frick Bldg., Pittsburgh, Pa.
Hennebique Construction Co., 1170 B'way, N.Y.
Holland Construction Co., West New Brighton, New York.
Michigan Technical Laboratory, 58 Lafayette Ave., Detroit, Mich.
Portland Iron & Steel Co., Board of Trade Bldg., Boston, Mass.
Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.
Raymond Concrete Pile Co., 135 Adams St., Chicago, Ill.
Rodgers Company, The, Monadnock Block, Chicago, Ill.
Standard Concrete Steel Co., 31st & 32d Sts., East River, New York.
Turner Construction Co., 11 B'way, N. Y.

Concrete Mixers

Abenague Machine Works, Westminster Station, Vt.
Ashland Steel Range & Mfg. Co., The, Ashland, Ohio.
Bergen Point Iron Works, 149 B'way, N. Y.
Buffalo Concrete Mixer Co., The, 12 Builders Exchange, Buffalo, N. Y.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburgh, Pa.
Century Cement Machine Co., 186 West Main St., Rochester, N. Y.
Chain Belt Co., Milwaukee, Wis.
Chandler, Geo. M., 42-9 North Illinois St., Indianapolis, Ind.
Chicago Concrete Machinery Co., 20 South Canal St., Chicago, Ill.

Mention the "Record" when writing.

Colorado Concrete Mixer Co., 1814 Arapahoe St., Denver, Col.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Drake Standard Machine Works, 298-302 West Jackson Boulevard, Chicago, Ill.
 Dunning, W. D., Water St., Syracuse, N. Y.
 Eureka Machine Co., Lansing, Mich.
 Foote Concrete Machinery Co., 184 La Salle St., Chicago, Ill.
 Hains Concrete Mixer Co., 723 Union Trust Bldg., Washington, D. C.
 Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
 International F. & Fireproofing Co., Columbus, Ohio.
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.
 Koehring Machine Co., Milwaukee, Wis.
 McKelvey Concrete Mchy. Co., Cleveland, O.
 Municipal Engineering & Contracting Co., Jackson Boulevard & Michigan Ave., Chicago, Ill.
 Nims Concrete Machinery, Philadelphia, N. Y.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Ransome Concrete Machinery Co., Dunellen, N. J.
 Scholl & Co., Julian, 126 Liberty St., N. Y.
 Shaw Co., Willis, 171 La Salle St., Chicago.
 Standard Sand & Machine Co., Cleveland, O.
 Svenson-Shuman Machine Co., 602 Bessemer Bldg., Pittsburg, Pa.
 Wilcox Co., W. H., Binghamton, N. Y.
 Youngstown Car Mfg. Co., Youngstown, O.

Concrete Pipe

Lock Joint Pipe Co., 346 B'way, New York.

Concrete Reinforcement

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.
 Goff, Horner & Co., "Ltd.," Frick Bldg., Pittsburg, Pa.

Concrete Steel

Ambursen Hydraulic Construction Co., 176 Federal St., Boston, Mass.
 American System of Reinforcing, 189 La Salle St., Chicago, Ill.
 Belmont Iron Works, 22d St., & Washington Ave., Philadelphia, Pa.
 Buffalo Steel Co., Towanda, N. Y.
 Calumet Steel Co., Commercial Nat'l Bank Bldg., Chicago, Ill.
 Concrete-Steel Engineering Co., Park Row Bldg., New York.
 Douglas, Geo. B., 29 B'way, New York.
 Ferro-Concrete Construction Co., Richmond & Harriet Sts., Cincinnati, Ohio.
 Gabriel Concrete Reinforcement Co., 1206-1208 Penobscot Bldg., Detroit, Mich.

Mention the "Record" when writing.

General Fireproofing Co., The, Youngstown, O.
 Goff-Horner & Co., "Ltd.," Frick Bldg., Pittsburgh, Pa.
 Hough & Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
 Inland Steel Co., First Nat'l Bank Bldg., Chicago, Ill.
 International F. & Fireproofing Co., Columbus, Ohio.
 Jackson, George W., "Inc.," 169-179 West Jackson Boulevard, Chicago, Ill.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 Maxwell Concrete Steel Co., Penobscot Bldg., Detroit, Mich.
 Memphis Bridge Co., Memphis, Tenn.
 Portland Iron & Steel Co., Board of Trade Building, Boston, Mass.
 Riverside Bridge Co., Martins Ferry, Ohio.
 Rodgers Company, The, Monadnock Block, Chicago, Ill.
 Rogers-Shear Company, The, Warren, Pa.
 Standard Concrete Steel Co., 31st & 32d Sts., East River, New York.
 Trussed Concrete Steel Co., Detroit, Mich.
 Truss Metal Lath Co., 147 Fourth Ave, N. Y.
 Tucker & Vinton, 41st St. & Park Ave., N. Y.
 Turner-Forman Concrete Steel Co., 1201 Chestnut St., Pa.

Concrete Waterproofing

Bayer, J. C., Front & Market Sts., Portland, Ore.
 Elaterite Paint & Mfg. Co., Des Moines, Ia.
 Grosche & Co., Bruno, 23 Jones Lane, N. Y.
 Hydrex Felt & Engineering Co., 120 Liberty St., N. Y.
 Standard Asphalt & Rubber Co., 944 First National Bank Bldg., Chicago, Ill.
 Warner Co., Charles, Wilmington, Del.
 Winslow Co., E. J., 138 Jackson Boulevard, Chicago, Ill.

Condenser Boxes

Graver Tank Works, Wm., East Chicago, Ind.

Condensers

Knowles Steam Pump Co., 115 B'way, N. Y.
 Union Steam Pump Co., Battle Creek, Mich.

Condensers and Cooling Towers

Dean Bro.'s Steam Pump Works, Indianapolis, Ind.
 Graver Tank Works, Wm., East Chicago, Ind.
 Prescott Steam Pump Co., Fred. M., Milwaukee, Wis.
 Riter-Conley Mfg. Co., Pittsburg, Pa.
 Southwark Foundry & Machine Co., Phila., Pa.
 Weber Co., The, Marquette Bldg., Chicago, Ill.
 Williamson Bros. Co., Aramingo Ave. & Cumberland St., Philadelphia, Pa.

Mention the "Record" when writing.

Condensers (Steam)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Conduits (Creosoted Wood)

American District Steam Co., Lockport, N. Y.
Bunting Co., J. E., Flatiron Bldg., N. Y.
Michigan Pipe Co., The, Bay City, Mich.
National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.

Conduits (Electric Wiring)

International Electric & Engineering Co., 148 Chambers St., New York.

Conduits (Steel)

Graver Tank Works, Wm., East Chicago, Ind.

Conduits (Vitrified Clay)

Bunting Co., J. E., Flatiron Bldg., N. Y.
Johns-Manville Co., H. W., 100 William St., New York City.
N. Y. State Sewer Pipe Co., Rochester, N. Y.
Patton Clay Mfg. Co., Patton, Pa.
Robinson Clay Product Co. of N. Y. Flatiron Bldg., New York.
Warner Co., Charles, Wilmington, Del.

Construction Reports

Dodge Co., F. W., 11 East 24th St., N. Y.

Consulting Engineers

Scherzer Rolling Lift Bridge Co., 1616 Monadnock Block, Chicago, Ill.

Contractors' Drafting Supplies

Architects & Engineers Supply Co., 1010 Grand Ave., Kansas City, Mo.

Contractors' Equipment and Supplies

Zelnicker Supply Co., Walter A., St. Louis, Mo.

Contractors (General)

American Concrete-Steel Co., Union Bldg., Newark, N. J.
American Test Boring & Drilling Co., 32 B'way, New York.
Anchor Post Iron Works, 147 Nassau St., N.Y.
Atlantic Gulf & Pacific Co., Park Row Bldg., New York.
Bunting Co., J. E., Flatiron Bldg., N. Y.
Clinton Bridge & Iron Works, Clinton, Ia.
Cullen-Friestedt Co., 1526 Tribune Bldg., Chicago, Ill.
Decatur Bridge Co., Decatur, Ill.
Ferro-Concrete Construction Co., Richmond and Harriet Sts., Cincinnati, Ohio.
Foundation Co., The, 115 B'way, New York.
Geisel Construction Co., 620 Chestnut St., St. Louis, Mo.
Gillespie Co., T. A., Westinghouse Bldg., Pittsburg, Pa.

Mention the "Record" when writing.

Holland Construction Co., West New Brighton,
New York.
Jackson, George W., "Inc.," 169-179 W. Jack-
son Boulevard, Chicago, Ill.
Lawrence Cement Co., 1 B'way, New York.
Memphis Bridge Co., Memphis, Tenn.
Naughton & Co., 299 B'way, New York.
Nims Concrete Machinery, Philadelphia, N. Y.
O'Rourke Engineering Construction Co., 345
Fifth Ave., New York.
Page & Shnable, 1002 Security Bldg., Chicago.
Pneumatic Caisson Co., Troy, N. Y.
Potomac Dredging Co., 24-25 Home Life Bldg.,
Washington, D. C.
Raymond Concrete Pile Co., 135 Adams St.,
Chicago, Ill.
Rodgers Co., The, Monadnock Block, Chicago.
Scherzer Rolling Lift Bridge Co., 1616 Monad-
nock Block, Chicago, Ill.
Scully Foundation & Transportation Co., John
T., 84 First St., Cambridge, Mass.
Snare & Triest Co., The, 143 Liberty St., N.Y.
Standard Concrete-Steel Co., 31st, 32d Sts. and
East River, New York.
Stone & Webster Engineering Corporation, 147
Milk St., Boston, Mass.
Terry & Tench Co., "Inc.," 131st St. and Lex-
ington Ave., New York.
Tracy Engineering Co., The, Union Trust
Bldg., Los Angeles, Cal.
Troy Public Works Co., Utica, N. Y.

Contractors (Interlocking Piling)

Cullen-Friedstedt Co., 1526 Tribune Bldg., Chi-
cago, Ill.
Hough Co., William B., 1336-7 Monadnock
Block, Chicago, Ill.
Jackson, George W., "Inc.," 169-179 W. Jack-
son Boulevard, Chicago, Ill.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
Wemlinger Steel Piling Co., 11 B'way, N. Y.
Whittekind, Henry, 4730 N. Clark St., Chicago.

Contractors' Machinery

American Hoist & Derrick Co., St. Paul, Minn.
Austin Drainage Excavator Co., F. C., Railway
Exchange, Chicago, Ill.
Bacon, Earle C., Havemeyer Bldg., New York.
Bergen Point Iron Works, 149 B'way, N. Y.
Blaw Collapsible Steel Centering Co., West-
inghouse Bldg., Pittsburg, Pa.
Bucyrus Co., The, South Milwaukee, Wis.
Byers Machine Co., The John F., Ravenna, O.
Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.
Carson Trench Machine Co., 16 Dorrance St.,
Boston, Mass.
Chandler, Geo. M., 42-9 N. Illinois St., In-
dianapolis, Ind.

Mention the "Record" when writing.

Chicago Concrete Machinery Co., 20 South
 Canal St., Chicago, Ill.
 Climax Road Machine Co., Marathon, N. Y.
 Contractors Plant Mfg. Co., Buffalo, N. Y.
 Contractors Supply & Equipment Co., 305 Old
 Colony Bldg., Chicago, Ill.
 Dobbie Foundry & Machine Co., Niagara
 Falls, N. Y.
 Erie Pump & Engine Co., Erie, Pa.
 Foote Concrete Machinery Co., 184 La Salle
 St., Chicago, Ill.
 Hayward Co., The, 97 Cedar St., New York.
 Hough Co., William B., 1336-7 Monadnock
 Block, Chicago, Ill.
 Indiana Road Machine Co., Fort Wayne, Ind.
 Ingersoll-Rand Co., 11 B'way, New York.
 Koppel Co., Arthur, 1601 Machesney Bldg.,
 Pittsburg, Pa.
 Lawrence Machine Co., Lawrence, Mass.
 Lombard Iron Works & Supply Co., Augusta,
 Ga.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 Mead-Morrison Mfg. Co., Cambridge, Mass.
 Monighan Machine Co., 809-823 Carroll Ave.,
 Chicago, Ill.
 Municipal Engineer'g & Contracting Co., Jack-
 son Boulevard and Mich. Ave., Chicago.
 Parsons Co., G. W., 306 Observatory Bldg.,
 Des Moines, Ia.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Pittsburg Tubular Steel Whiffletree Co., Pitts-
 burg, Pa.
 Power & Mining Machinery Co., Cudahy, Wis.
 Ransome Concrete Machinery Co., Dunellen,
 N. J.
 Robins Conveying Belt Co., Passaic, N. J.
 Scholl & Co., Julian, 126 Liberty St., N. Y.
 Shaw Co., Willis, 171 La Salle St., Chicago.
 Studebaker Bros. Mfg. Co., South Bend, Ind.
 Sturtevant Mill Co., Harrison Sq., Boston.
 Svenson-Shuman Machine Co., 602 Bessemer
 Bldg., Pittsburg, Pa.
 Union Iron Works, The, Hoboken, N. J.
 Wilcox Co., W. H., Binghamton, N. Y.
 Wonham-Magor Engineering Works, 29 B'way,
 New York.

Conveying Machinery

Allis-Chalmers Co., Milwaukee, Wis.
 Atlas Dryer Co., The, Cleveland, Ohio.
 Bacon, Earle C., Havemeyer Bldg., N. Y.
 Bartlett & Snow Co., C. O., Cleveland, O.
 Bergen Point Iron Works, 149 B'way, N. Y.
 Broderick & Bascom Rope Co., St. Louis, Mo.
 Carson Trench Machine Co., 16 Dorrance St.,
 Boston, Mass.
 Chain Belt Co., Milwaukee, Wis.
 Cleveland Crane & Car Co., Wickliffe, Ohio.
 Contractors Supply & Equipment Co., 305 Old
 Colony Bldg., Chicago, Ill.

Mention the "Record" when writing.

Cresson Co., Geo. V., Philadelphia, Pa.
 Hayward Co., The, 97 Cedar St., New York.
 Koppel Co., Arthur, 1601 Machesney Bldg.,
 Pittsburg, Pa.
 Lidgerwood Mfg. Co., 96 Liberty St., N. Y.
 Mead-Morrison Mfg. Co., Cambridge, Mass.
 Monighan Machine Co., 809-823 Carroll Ave.,
 Chicago, Ill.
 Nims Concrete Machinery, Philadelphia, N. Y.
 Northern Engineering Works, Detroit, Mich.
 Power & Mining Machinery Co., Cudahy, Wis.
 Raymond Bros. Impact Pulverizer Co., 143
 Laflin St., Chicago, Ill.
 Riter-Conley Mfg. Co., Pittsburg, Pa.
 Robins Conveying Belt Co., Passaic, N. J.
 Shaw Co., Willis, 171 La Salle St., Chicago.
 Standard Sand & Machine Co., Cleveland, O.
 Sturtevant Mill Co., Harrison Sq., Boston.
 Webster Mfg. Co., 1075 W. 15th St., Chicago,
 Ill.; 88-90 Reade St., New York.

Conveyors (Automatic Power)

Broderick & Bascom Rope Co., St. Louis, Mo.
 Mead-Morrison Mfg. Co., Cambridge, Mass.
 Nims Concrete Machinery, Philadelphia, N. Y.
 Sturtevant Mill Co., Harrison Sq., Boston.

Conveyors (Cable)

Broderick & Bascom Rope Co., St. Louis, Mo.
 Carson Trench Machine Co., 16 Dorrance St.,
 Boston, Mass.
 Contractors Supply & Equipment Co., 305 Old
 Colony Bldg., Chicago, Ill.
 Leschen & Sons Rope Co., A., St. Louis, Mo.
 Lidgerwood Mfg. Co., 96 Liberty St., N. Y.
 Mead-Morrison Mfg. Co., Cambridge, Mass.
 Roebling's Sons Co., John A., Trenton, N. J.

Conveyors (Chain)

Chain Belt Co., Milwaukee, Wis.
 Contractors Supply & Equipment Co., 305 Old
 Colony Bldg., Chicago, Ill.
 Standard Sand & Machine Co., Cleveland, O.
 Webster Mfg. Co., 1075 W. 15th St., Chicago,
 Ill.; 88-90 Reade St., New York.

Conveyors (Trench Excavating)

Carson Trench Machine Co., 16 Dorrance St.,
 Boston, Mass.
 Contractors Supply & Equipment Co., 305 Old
 Colony Bldg., Chicago, Ill.
 Hayward Co., The, 97 Cedar St., New York.
 Lidgerwood Mfg. Co., 96 Liberty St., N. Y.
 Municipal Engineer's & Contracting Co., Jack-
 son Boulevard and Mich. Ave., Chicago.

Copper

Scully Steel & Iron Co., Chicago, Ill.

Cord

Leschen & Sons Rope Co., A., St. Louis, Mo.

Mention the "Record" when writing.

Cordage

American Mfg. Co., 65 Wall St., New York.

Cornices

American Skylight & Iron Works, 221 Randolph Ave., Jersey City, N. J.

Atlas Roofing Co., 115-117 Clark St., Newburgh, N. Y.

Bayer, J. C., Front and Market Sts., Portland, Ore.

Berger Mfg. Co., The, Canton, Ohio.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Mullins Co., W. H., 342 Franklin St., Salem, O.

Van Noorden Co., E., 950 Mass. Ave., Boston.

Corporation Cocks

Clow & Sons, James B., Chicago, Ill.

National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.

Smith Mfg. Co., A. P., Passaic Ave., Newark, N. J.

Countershafts

Sturtevant Co., B. F., Hyde Park, Mass.

Valley Iron Works, Williamsport, Pa.

Couplings (Compression)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Couplings (Flange)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Couplings (Friction Clutch)

Allis-Chalmers Co., Milwaukee, Wis.

Chain Belt Co., Milwaukee, Wis.

Lombard Iron Works & Supply Co., Augusta, Ga.

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Smith Co., S. Morgan, York, Pa.

Valley Iron Works, Williamsport, Pa.

Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Couplings (Large Pipe)

American Spiral Pipe Works, 14th St. and 48th Ave., Chicago, Ill.

Couplings (Pipe)

American Spiral Pipe Works, 14th St. and 48th Ave., Chicago, Ill.

Couplings (Shaft)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Cranes and Hoists

Bergen Point Iron Works, 149 B'way, N. Y.

Cranes (Air)

Independent Pneumatic Tool Co., Chicago and New York.

Ingersoll-Rand Co., 11 B'way, New York.

Mention the "Record" when writing.

Northern Engineering Works, Detroit, Mich.
Wonham-Magor Engineering Works, 29 B'way,
New York.

Cranes (Derrick)

American Hoist & Derrick Co., St. Paul, Minn.
Bacon, Earle C., Havemeyer Bldg., N. Y.
Brown Hoisting Machinery Co., The, 4403 St.
Clair Ave., Cleveland, Ohio.
Bucyrus Co., The, South Milwaukee, Wis.
Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.
Contractors Plant Mfg. Co., Buffalo, N. Y.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Dobbie Foundry & Mach. Co., Niagara Falls,
N. Y.
Hayward Co., The, 97 Cedar St., New York.
Northern Engineering Works, Detroit, Mich.
Parker Hoist & Machine Co., 971 N. Francisco
Ave., Chicago, Ill.
Shaw Co., Willis, 171 La Salle St., Chicago.
Wonham-Magor Engineering Works, 29 B'way,
New York.

Cranes (Electric Locomotive)

Boston Bridge Works, 47 Winter St., Boston.
Brown Hoisting Machinery Co., The, 4403 St.
Clair Ave., Cleveland, Ohio.
Cleveland Crane & Car Co., Wickliffe, Ohio.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Hayward Co., The, 97 Cedar St., New York.
International Electric & Engineering Co., 148
Chambers St., New York.
Manning, Maxwell & Moore, 85-89 Liberty
St., New York.
Mead-Morrison Mfg. Co., Cambridge, Mass.

Cranes (Hand-Power)

Bacon, Earle C., Havemeyer Bldg., N. Y.
Boston Bridge Works, 47 Winter St., Boston.
Brown Hoisting Machinery Co., The, 4403 St.
Clair Ave., Cleveland, Ohio.
Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.
Cleveland Crane & Car Co., Wickliffe, Ohio.
Dobbie Foundry & Mach. Co., Niagara Falls,
N. Y.
Maris Bros., 56th and Gray's Ave., Phila., Pa.
Northern Engineering Works, Detroit, Mich.
Parker Hoist & Machine Co., 971 N. Francisco
Ave., Chicago, Ill.
Ransome Concrete Machinery Co., Dunellen,
N. J.
Reading Crane & Hoist Works, Reading, Pa.
Whitehead & Kales Iron W'ks, Detroit, Mich.
Wonham-Magor Engineering Works, 29 B'way,
New York.

Mention the "Record" when writing.

Cranes (Hydraulic)

Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.
Cleveland Crane & Car Co., Wickliffe, Ohio.
Mead-Morrison Mfg. Co., Cambridge, Mass.
Wood & Co., R. D., 400 Chestnut St., Phila.

Cranes (Jib)

Reading Crane & Hoist Works, Reading, Pa.

Cranes (Locomotive)

American Hoist & Derrick Co., St. Paul, Minn.
Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.
Williamson Bros. Co., Aramingo Ave. and Cumberland St., Philadelphia, Pa.

Cranes (Locomotive, Electric or Steam)

Northern Engineering Works, Detroit, Mich.

Cranes (Pneumatic)

Northern Engineering Works, Detroit, Mich.

Cranes (Traveling)

Boston Bridge Works, 47 Winter St., Boston.
Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.
Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.
Cleveland Crane & Car Co., Wickliffe, Ohio.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Dobbie Foundry & Mach. Co., Niagara Falls, N. Y.
Hayward Co., The, 97 Cedar St., New York.
Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
Manning, Maxwell & Moore, 85-89 Liberty St., New York.
Maris Brothers, 56th & Gray's Ave., Phila.
Northern Engineering Works, Detroit, Mich.
Ransome Concrete Machinery Co., Dunellen, N. J.
Reading Crane & Hoist Works, Reading, Pa.
Wonham-Magor Engineering Works, 29 B'way, New York.

Crayons (Marking)

Dixons Crucible Co., Joseph, Jersey City, N.J.

Creosoting

Allis-Chalmers Co., Milwaukee, Wis.
American Creosoting Co., 29 B'way, N. Y.
Barber Asphalt Paving Co., Maurer, N. J.
Grosche & Co., Bruno, 23 Jones Lane, N. Y.
Gulfport Creosoting Co., Gulfport, Miss.
Michigan Pipe Co., Bay City, Mich.

Creosoting Cylinders

Petroleum Iron Works Co., The, Sharon, Pa.

Mention the "Record" when writing.

Crossings, Railway (See Frogs)

Indianapolis Switch & Frog Co., Springf'd, O.
Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.
Pennsylvania Steel Co., Philadelphia, Pa.
Wiener Company, Ernst, 168 Morris Bldg, N. Y.

Crusher Castings (Rock)

Allis-Chalmers Co., Milwaukee, Wis.
Bacon, Earle C., Havemeyer Bldg., N. Y.
Pennsylvania Steel Co., The, Phila., Pa.
Power & Mining Machinery Co., Cudahy, Wis.
Traylor Engineering Co., 2 Rector St., N. Y.

Crushers

Allis-Chalmers Co., Milwaukee, Wis.
Austin Mfg. Co., Chicago, Ill.
Bacon, Earle C., Havemeyer Bldg., N. Y.
Chicago Concrete Machinery Co., 20 South
Canal St., Chicago, Ill.
Climax Road Machine Co., Marathon, N. Y.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Cresson Co., Geo. V., Phila., Pa.
Fitzgerald, B. E., 1617 Fifth Ave., McKeesport,
Pa.
Indiana Road Machine Co., Fort Wayne, Ind.
Kent Mill Co., 170 B'way, New York.
Mead-Morrison Mfg. Co., Cambridge, Mass.
Pittsburg Tubular Steel Whiffletree Co., Pitts-
burg, Pa.
Power & Mining Machinery Co., Cudahy, Wis.
Ransome Concrete Machinery Co., Dunellen,
N. J.
Raymond Bros. Impact Pulverizer Co., 143
Laflin St., Chicago, Ill.
Scholl & Co., Julian, 126 Liberty St., N. Y.
Shaw Co., Willis, 171 La Salle St., Chicago.
Smith & Co., T. L., Milwaukee, Wis.
Sturtevant Mill Co., Harrison Sq., Boston.
Traylor Engineering Co., 2 Rector St., N. Y.

Crushers (Fine)

Sturtevant Mill Co., Harrison Sq., Boston.

Crushers for Coal, Shale, Bone, Asphalt, Rock

Allis-Chalmers Co., Milwaukee, Wis.
Climax Road Machine Co., Marathon, N. Y.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Indiana Road Machine Co., Fort Wayne, Ind.
Mead-Morrison Mfg., Co., Cambridge, Mass.
Power & Mining Machinery Co., Cudahy, Wis.
Prosser & Sons, Thos. ("Krupp"), 15 Gold St.,
New York.
Raymond Bros. Impact Pulverizer Co., 143
Laflin St., Chicago, Ill.
Sturtevant Mill Co., Harrison Sq., Boston.
Traylor Engineering Co., 2 Rector St., N. Y.

Mention the "Record" when writing.

Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.
Williams Patent Crusher & Pulverizer Co., Chicago, Ill.

Crushers (Rock)

Sturtevant Mill Co., Harrison Sq., Boston.

Crushers (Stone)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Crushing and Mining Machinery (Portable)

Bacon, Earle C., Havemeyer Bldg., N. Y.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Chandler, Geo. M., 42-9 North Illinois St., Indianapolis, Ind.
Climax Road Machine Co., Marathon, N. Y.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Indiana Road Machine Co., Fort Wayne, Ind.
Kent Mill Co., 170 B'way, New York.
Mead Morrison Mfg. Co., Cambridge, Mass.
Power & Mining Machinery Co., Cudahy, Wis.
Raymond Bros., Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.
Sturtevant Mill Co., Harrison Sq., Boston.
Traylor Engineering Co., 2 Rector St., N. Y.

Crushing Plants Complete

Bacon, Earle C., Havemeyer Bldg., New York.

Crushing Rolls

Allis-Chalmers Co., Milwaukee, Wis.
Bacon, Earle C., Havemeyer Bldg., N. Y.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Kent Mill Co., 170 B'way, New York.
Power & Mining Machinery Co., Cudahy, Wis.
Raymond Bros., Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.
Sturtevant Mill Co., Harrison Sq., Boston.
Traylor Engineering Co., 2 Rector St., N. Y.
Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Culverts

Indiana Road Machine Co., Fort Wayne, Ind.

Cupolas

Northern Engineering Works, Detroit, Mich.
Power & Mining Machinery Co., Cudahy, Wis.
Wonham-Magor Engineering Works, 29 B'way, New York.

Curb Boxes (Meter)

Buffalo Meter Co., 290-296 Terrace, Buffalo, N. Y.

Mention the "Record" when writing.

Curb (Steel-Bound)

Steel Protected Concrete Co., Phila., Pa.

Curb (Steel-Protected)

Steel Protected Concrete Co., Phila., Pa.

Cutters (Rod and Bolt)

Scully Steel & Iron Co., Chicago, Ill.

Cyclone Collectors

Raymond Bros. Impact Pulverizer Co., 143
Laflin St., Chicago, Ill.

Cylinders

Graver Tank Works, Wm., East Chicago, Ind.

Dams (Concrete)

Aberthaw Construction Co., 8 Beacon St., Bos-
ton, Mass.

Ambursen Hydraulic Construction Co., 176
Federal St., Boston, Mass.

Bunting Co., J. E., Flatiron Bldg., N. Y.

Concrete-Steel Engineering Co., Park Row
Bldg., New York.

Cullen-Friestedt Co., 1526 Tribune Bldg., Chi-
cago, Ill.

Foundation Co., The, 115 B'way, New York.

Jackson, George W., "Inc.," 169-179 W. Jack-
son Boulevard, Chicago, Ill.

Kosmos Portland Cement Co., "Inc.," 614-
616 Paul Jones Bldg., Louisville, Ky.

Nims Concrete Machinery, Philadelphia, N. Y.

Rodgers Company, The, Monadnock Block,
Chicago, Ill.

Trussed Concrete Steel Co., Detroit, Mich.

Derails

Indianapolis Switch & Frog Co., Springfield, O.

Derrick Crabs

Dake Engine Co., Grand Haven, Mich.

Derrick Irons

Byers Machine Co., The John F., Ravenna, O.

Monighan Machine Co., 809-823 Carroll Ave.,
Chicago, Ill.

Derricks and Derrick Fittings

American Hoist & Derrick Co., St. Paul, Minn.

Baltimore Bridge Co., Bush St. and B. & O. R.
R., Baltimore, Md.

Bergen Point Iron Works, 149 B'way, N. Y.

Broderick & Bascom Rope Co., St. Louis, Mo.

Byers Machine Co., The John F., Ravenna, O.

Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.

Chandler, Geo. M., 42-9 North Illinois St., In-
dianapolis, Ind.

Contractors Plant Mfg. Co., Buffalo, N. Y.

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Dobbie Foundry & Machine Co., Niagara Falls,
N. Y.

Hayward Co., The, 97 Cedar St., New York.

Mention the "Record" when writing.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
 Leschen & Sons Rope Co., A., St. Louis, Mo.
 Lombard Iron W'ks & Supply Co., Augusta, Ga.
 Monighan Machine Co., 809-823 Carroll Ave., Chicago, Ill.
 New York Cableway & Engineering Co., 2 Rector St., New York.
 Noelke-Richards Iron Works, Indianapolis, Ind.
 Northern Engineering Works, Detroit, Mich.
 Parker Hoist & Machine Co., 971 North Francisco Ave., Chicago, Ill.
 Patterson Co., W. W., Pittsburg, Pa.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Reliance Machine & Tool Works, St. Louis, Mo.
 Shaw Co., Willis, 171 La Salle St., Chicago.
 Terry & Tench Co., "Inc.," 131st St. & Lexington Ave., New York.

Derricks (Pile Driving)

American Hoist & Derrick Co., St. Paul, Minn.
 Bucyrus Co., The, So. Milwaukee, Wis.
 Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
 Contractors Plant Mfg. Co., Buffalo, N. Y.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Dobbie Foundry & Machine Co., Niagara Falls, N. Y.
 Hayward Co., The, 97 Cedar St., New York.
 Lombard Iron W'ks & Supply Co., Augusta, Ga.
 New York Cableway & Engineering Co., 2 Rector St., New York.

Derricks (Steam)

American Hoist & Derrick Co., St. Paul, Minn.
 Bucyrus Co., The, South Milwaukee, Wis.
 Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
 Contractors Plant Mfg. Co., Buffalo, N. Y.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Dobbie Foundry & Machine Co., Niagara Falls, N. Y.
 Hayward Co., The, 97 Cedar St., New York.
 New York Cableway & Engineering Co., 2 Rector St., New York.
 Parker Hoist & Machine Co., 971 North Francisco Ave., Chicago, Ill.

Derricks (Steel)

Riter-Conley Co., Pittsburg, Pa.

Diffusers (Air)

New York Blower Co., Chicago, Ill.

Distillers

Williamson Bros. Co., Aramingo Ave., & Cumberland St., Philadelphia, Pa.

Mention the "Record" when writing.

Ditching Machinery, Steam Shovels, Etc. (See Excavating Machinery)

- American Hoist & Derrick Co., St. Paul, Minn.
Austin Drainage Excavator Co., F. C., Railway Exchange, Chicago, Ill.
Bucyrus Co., The, South Milwaukee, Wis.
Chandler, Geo. M., 42-9 North Illinois St., Indianapolis, Ind.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Hayward Co., The, 97 Cedar St., New York.
Indiana Road Machine Co., Fort Wayne, Ind.
Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburgh, Pa.
Leschen & Sons Rope Co., A., St. Louis, Mo.
Marion Steam Shovel Co., The, 640 W. Center St., Marion, Ohio.
Monighan Machine Co., 809-823 Carroll Ave., Chicago, Ill.
Municipal Engineering & Contracting Co., Jackson Boulevard & Michigan Ave., Chicago.
Parsons Co., G. W., 306 Observatory Bldg., Des Moines, Ia.
Shaw Co., Willis, 171 La Salle St., Chicago, Ill.
Thew Automatic Shovel Co., Lorain, Ohio.
Webster Mfg. Co., 1075 West 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Dodge Reports

- Dodge Co., F. W., 11 East 24th St., N. Y.

Doors and Shutters

- Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.
Berger Mfg. Co., The, Canton, Ohio.
Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
Mesker & Bro., 421 So. 6th St., St. Louis, Mo.
Wilson Mfg. Co., Jas. G., 3 West 29th St., N.Y.

Doors (Metal)

- General Fireproofing Co., The, Youngstown, O.

Doors (Rolling)

- Wilson Mfg. Co., Jas. G., 3 West 29th St., N.Y.

Draft Dampers

- Green Fuel Economizer Co., Matteawan, N. Y.

Draftsmen's Instruments

- Lufkin Rule Co., The, Saginaw, Mich.
Technical Supply Co., 46 East 14th St., N. Y.

Drainage

- Austin Drainage Excavator Co., F. C., Railway Exchange, Chicago, Ill.

Drawing Materials

- Architects & Engineers Supply Co., 1010 Grand Ave., Kansas City, Mo.
Kolesch & Co., 138 Fulton St., New York.

Mention the "Record" when writing.

Technical Supply Co., 46 East 14th St., N. Y.

Dredging Contractors

Austin Drainage Excavating Co., F. C., Railway Exchange, Chicago, Ill.

Wetherill Bros., Machine Co., Chester, Pa.

Dredging Machinery

Atlantic Gulf & Pacific Co., Park Row Bldg., New York.

Austin Drainage Excavator Co. F. C., Railway Exchange, Chicago, Ill.

Broderick & Bascom Rope Co., St. Louis, Mo.

Bucyrus Co., The, South Milwaukee, Wis.

Chandler, Geo. M., 42-9 North Illinois St., Indianapolis, Ind.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Cresson Co., Geo. V., Philadelphia, Pa.

Erie Pump & Engine Co. Erie, Pa.

Hayward Co., The, 97 Cedar St., New York.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Kiesler Co., The, 82 Pratt St., Chicago, Ill.

Leschen & Sons Rope Co., A., St. Louis, Mo.

Marion Steam Shovel Co., The, 640 West Center St., Marion, Ohio.

Mead-Morrison Mfg. Co., Cambridge, Mass.

Monighan Machine Co., 809-823 Carroll Ave., Chicago, Ill.

Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.

Shaw Co., Willis, 171 La Salle St., Chicago, Ill.

Wetherill Bros., Machine Co., Chester, Pa.

Drift Pins

Scully Steel & Iron Co., Chicago, Ill.

Drill Bits

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Drilling Machines (Blast-Hole)

American Well Works, Aurora, Ill.

Preslar Prospecting & Engineering Co., Cincinnati, Ohio.

Drilling Rope

American Mfg. Co., 65 Wall St., New York.

Drills (Automatic Feed)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Drills (Diamond Core)

Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.

Preslar Prospecting & Engineering Co., Cincinnati, Ohio.

Shaw Co., Willis, 171 La Salle St., Chicago, Ill.

Sullivan Machinery Co., Railway Exchange, Chicago, Ill.

Drills (Diamondless Core)

Ingersoll-Rand Co., 11 Broadway, New York.

Mention the "Record" when writing.

Drills (Electric)

Independent Pneumatic Tool Co., Chicago & New York.

Drills (Electric-Air) Rock

Ingersoll-Rand Co., 11 B'way, New York.

Drills (Electric-Driven)

Scully Steel & Iron Co., Chicago, Ill.

Drills (Pneumatic)

Independent Pneumatic Tool Co., Chicago & New York.

Ingersoll-Rand Co., 11 B'way, New York.

Scully Steel & Iron Co., Chicago, Ill.

Sullivan Machinery Co., Railway Exchange, Chicago, Ill.

Drills (Portable)

Scully Steel & Iron Co., Chicago, Ill.

Drills (Ratchet)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Drills (Rock)

Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.

Ingersoll-Rand Co., 11 B'way, New York.

McKiernan Drill Co., 115 B'way, New York.

Shaw Co., Willis. 171 La Salle St., Chicago, Ill.

Sullivan Machinery Co., Railway Exchange, Chicago, Ill.

Drums (Hoisting)

Allis-Chalmers Co., Milwaukee, Wis.

Bacon, Earle C., Havemeyer Bldg., New York.

Broderick & Bascom Rope Co., St. Louis, Mo.

Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Mead-Morrison Mfg., Co., Cambridge, Mass.

Northern Engineering Works, Detroit, Mich.

Parker Hoist & Machine Co., 971 North Francisco Ave., Chicago, Ill.

Traylor Engineering Co., 2 Rector St., N. Y.

Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Dryers (Cement or Asphalt)

Allis-Chalmers Co., Milwaukee, Wis.

American Process Co., 62-68 William St., N. Y.

Atlas Dryer Co., The, Cleveland, Ohio.

Bartlett & Snow Co., C. O., Cleveland, O.

Cummer & Sons Co., F. D., 413 Arcade, Cleveland, Ohio.

Fuller Engineering Co., Allentown Nat'l Bank Bldg., Allentown, Pa.

Green Fuel Economizer Co., Matteawan, N.Y.

Power & Mining Machinery Co., Cudahy, Wis.

Ruggles-Coles Engineering Co., 39 Cortl'dt St., New York.

Sharon Boiler Works, Sharon, Pa.

Smidth & Co., F. L., 39-41 Cortl'dt St., N. Y.

Mention the "Record" when writing.

Drying Apparatus (Hot-Blast)

American Blower Co., Detroit, Mich.
American Process Co., 62-68 William St., N. Y.
Andrews & Johnson Co., Chicago, Ill.
Atlas Dryer Co., The, Cleveland, Ohio.
Green Fuel Economizer Co., Matteawan, N. Y.
New York Blower Co., Chicago, Ill.
Sharon Boiler Works, Sharon, Pa.
Standard Sand & Machine Co., Cleveland, O.
Sturtevant Co., B. F., Hyde Park, Mass.

Dumbwaiters

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Dump Boxes

Glen Wagon Co., 40-50 Oak St., Seneca Falls, N. Y.
Troy Wagon Works Co., The, Troy, Ohio.

Dump Wagons (See Wagons—Contractors)

Glen Wagon Co., 40-50 Oak St., Seneca Falls, N. Y.
Studebaker Bros. Mfg. Co., South Bend, Ind.

Dust Collectors

American Blower Co., Detroit, Mich.
Green Fuel Economizer Co., Matteawan, N. Y.
Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.
Sturtevant Co., B. F., Hyde Park, Mass.

Dynamite

Ætna Powder Co., The, Chicago, Ill.
du Pont de Nemours Powder Co., E. I., Wilmington, Del.
Keystone Powder Mfg. Co., Emporium, Pa.
National Powder Co., 353 Fifth Ave., N. Y.
Sinnamahoning Powder Mfg. Co., Emporium, Pa.

Dynamos

Burke Electric Co., Erie, Pa.
C. & C. Electric Co., Garwood, N. J.
Perrin, Seamans & Co., 57 Oliver St., Boston.

Economizers (See Fuel Economizers)

Green Fuel Economizer Co., Matteawan, N. Y.
Sturtevant Co., B. F., Hyde Park, Mass.

Ejectors

American Injector Co., Congress & 7th Sts., Detroit, Mich.
Clow & Sons, James B., Chicago, Ill.
Hayden & Derby Mfg. Co., 85-89 Liberty St., New York.
Lombard Iron W'ks & Supply Co., Augusta, Ga.
Lunkenheimer Co., Cincinnati, Ohio.
Perrin, Seamans & Co., 57 Oliver St., Boston.

Electric Bells

International Electric & Engineering Co., 148 Chambers St., New York.
Ostrander & Co., W. R., 22 Dey St., N. Y.

Mention the "Record" when writing.

Electric Plants and Machinery

Abenague Machine Works, Westminster Station, Vt.

Allis-Chalmers Co., Milwaukee, Wis.

Burke Electric Co., Erie, Pa.

C. & C. Electric Co., The, Garwood, N. J.

De Laval Steam Turbine Co., Trenton, N. J.

General Electric Company, Schenectady, N. Y.

International Electric & Engineering Co., 148 Chambers St., New York.

Ridgway Dynamo & Engine Co., Ridgway, Pa.

Sturtevant Co., B. F., Hyde Park, Mass.

Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.

Electric Trucks

Studebaker Bros., Mfg. Co., South Bend, Ind.

Electrical Supplies

General Electric Company, Schenectady, N. Y.

Electrical Wires and Cables

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Elevating and Conveying Machinery

Bartlett & Snow Co., C. O., Cleveland, Ohio.

Elevating Graders

Indiana Road Machine Co., Fort Wayne, Ind.

Elevator Dredges

Marion Steam Shovel Co., The, 640 W. Center St., Marion, Ohio.

Elevator Inclosures

Darby & Sons Co., "Inc.," Edw., Phila., Pa.

Elevator Repairs

Marine Engine & Machine Co., 230 West 13th St., New York.

Elevators

Allis-Chalmers Co., Milwaukee, Wis.

Broderick & Bascom Rope Co., St. Louis, Mo.

Marine Engine & Machine Co., 230 West 13th St., New York.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Northern Engineering Works, Detroit, Mich.

Sturtevant Mill Co., Harrison Sq., Boston.

Elevators (Buckets)

Bacon, Earle C., Havemeyer Bldg., N. Y.

Chain Belt Co., Milwaukee, Wis.

Chandler, Geo. M., 42-9 North Illinois St., Indianapolis, Ind.

Climax Road Machine Co., Marathon, N. Y.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Indiana Road Machine Co., Fort Wayne, Ind.

Mead-Morrison Mfg., Co., Cambridge, Mass.

Power & Mining Machinery Co., Cudahy, Wis.

Standard Sand & Machine Co., Cleveland, O.

Sterling Wheelbarrow Co., Milwaukee, Wis.

Sturtevant Mill Co., Harrison Sq., Boston.

Mention the "Record" when writing.

Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Elevators, Builders'

Byers Machine Co., The John F., Ravenna, O.

Engineering Books (See Books, Engineering and Technical)

McGraw Publishing Co., 239 West 39th St., New York.

Van Nostrand & Co., D., 23 Murray St., N. Y.

Wiley & Sons, John, 43-45 East 19th St., N. Y.

Engineering Reports

Dodge Co., F. W., 11 East 24th St., New York.

Engineers and Contractors

Aberthaw Construction Co., 8 Beacon St., Boston, Mass.

Albright & Mebus, 908 Land Title Bldg., Philadelphia, Pa.

Alvord, John W., 127 Hartford Bldg., Chicago, Ill.

American Concrete Caisson Co., National State Bank Bldg., Troy, New York.

American Concrete-Steel Co., Union Bldg., Newark, N. J.

American District Steam Co., Lockport, N. Y.

Arnold & Andrew, 52 B'way, New York.

Arnold Co., The, 181 La Salle St., Chicago, Ill.

Ash-Dorsey, 127 Montgomery St., San Francisco, Cal.

Asserson, Henry R., 59-61 Pearl St., New York.

Atlas Dryer Co., The, Cleveland, Ohio.

Baldwin, Wm. J., World Bldg., New York.

Barbour, F. A., Tremont Bldg., Boston, Mass.

Barrus, George H., Room 301, 22 Pemberton St., Boston, Mass.

Bates, Putnam A., 42 B'way, New York.

Berlin Construction Co., Berlin, Conn.

Breite, W. W., 925 Golden Gate Ave., San Francisco, Cal.

Brill, George M., 1134 Marquette Bldg., Chicago, Ill.

Bryan, William H., 315-316 Lincoln Trust Bldg., St. Louis, Mo.

Byllesby & Co., H. M., American Trust Bldg., Chicago, Ill.

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.

City Wastes Disposal Co., 156 Fifth Ave., N. Y.

Cleveland Crane & Car Co., Wickliffe, Ohio.

Cole, John A. & Edw. S., 220 B'way, N. Y.

Concrete-Steel Engineering Co., Park Row Bldg., New York.

Cullen-Friestedt Co., 1526 Tribune Bldg., Chicago, Ill.

Decatur Bridge Co., Decatur, Ill.

De La Mater, S. T., Hennen Bldg., New Orleans, La.

Dow & Smith, 24-26 East 21st St., N. Y.

Mention the "Record" when writing.

Duryea, Jr., Edwin, 1368 Geary St., San Francisco, Cal.
 Fanning, J. T., 330 Hennepin Ave., Minneapolis, Minn.
 Farrington, Harvey, 45 B'way, New York.
 Ferro-Concrete Construction Co., Richmond & Harriet Sts., Cincinnati, Ohio.
 Field, Barker & Underwood, "Inc.," 514 Arcade Bldg., Philadelphia, Pa.
 Field, Wm. P., Newark, N. J.
 Ford, Owen, 710 Security Bldg., St. Louis, Mo.
 Freeborn Engineering & Construction Co., "Inc.," 605-615 Scarrit Bldg., Kansas City, Mo.
 Fuertes, James H., 140 Nassau St., N. Y.
 Fuller Engineering Co., Allentown Nat'l Bank Bldg., Allentown, Pa.
 Fuller, Frank L., 12 Pearl St., Boston, Mass.
 Gray, Samuel M., Room 929, Weybosset St., Providence, R. I.
 Ham, William Hale, Youngstown, Ohio.
 Hazen, Allen, 220 B'way, New York.
 Hazlehurst, James Nisbet, Candler Bldg., Atlanta, Ga.
 Heineken, Bayne & McCarthy, 1123 B'way, N. Y.
 Hennebique Construction Co., 1170 B'way, N. Y.
 Hering & Fuller, 170 B'way, New York.
 Hill Jr., Nicholas S., 100 William St., N. Y.
 Holland Construction Co., West New Brighton, N. Y.
 Insley Iron Works, Indianapolis, Ind.
 Iowa Engineering Co., 410-411 Weston Block, Clinton, Iowa.
 Jewell Engineering Co., The, Cable Bldg., Chicago, Ill.
 Kafka, Frederick P., Room 628, 156 Fifth Ave., New York.
 Kidde, Walter, 140 Cedar St., New York.
 Kiersted, Wynkoop, 58 Water-Works Bldg., Kansas City, Mo.
 Knight & Hopkins, Rome, New York.
 Leavitt, Jr., Chas. W., 220 B'way, New York.
 Lederle & Provost, 39-41 West 38th St., N. Y.
 Luey, W. A., Monadnock Bldg., San Francisco, Cal.
 Luzerne Engineering Co., Glover Bldg., Hazleton, Pa.
 Lyndon, Lamar, 2 Rector St., New York.
 MacGregor, J. Grant, P. O. Box 411, Louisville, Ky.
 Maury, Dabney H., 129 North Jefferson Ave., Peoria, Ill.
 Maxcy, John Wharton, 204 Blinz Bldg., Houston, Tex.
 Metcalf & Eddy, 14 Beacon St., Boston, Mass.
 Meyer, Jr., Henry C., 1 Madison Ave., N. Y.
 Moore & Sons Corp., Sam'l L., Front & Franklin Sts., Elizabethport, N. J.
 Naughton Co., 299 B'way, New York

Mention the "Record" when writing.

Nims, A. F., Philadelphia, N. Y.
 O'Rourke Engineering Construction Co., 345
 Fifth Ave., New York.
 Owen, James, 196 Market St., Newark, N. J.
 Pacific Flush-Tank Co., 184 La Salle St., Chi-
 cago, Ill.
 Page & Shnable, 1002 Security Bldg., Chicago.
 Palmer Co., W. K., 717-718 Dwight Bldg., Kan-
 sas City, Mo.
 Parmelee, Chas. L., 90 West St., New York.
 Pennsylvania Steel Co., The, Phila., Pa.
 Phillips, Richard H., Security Bldg., St. Louis,
 Mo.
 Phoenix Bridge Co., The, 410 Walnut St.,
 Philadelphia, Pa.
 Potter, Alexander, 143 Liberty St., New York.
 Presler Prospecting & Engineering Co., Cin-
 cinnati, Ohio.
 Prouty-Clark Engineering Co., 305 Studio Bldg.,
 Berkeley, Cal.
 Raymond Concrete Pile Co., 135 Adams St.,
 Chicago, Ill.
 Rhodes, Fred. Dana, 140 Cedar St., New York.
 Riggs & Sherman Co., The, 613 The Nasby,
 Toledo, Ohio.
 Riverside Bridge Co., Martins Ferry, Ohio.
 Rodgers Company, The, Monadnock Block, Chi-
 cago, Ill.
 Rosewater, Andrew, Omaha, Neb.
 Ruggles-Coles Engineering Co., 39 Cortlandt
 St., New York.
 Scarborough, F. W., 816 Mutual Bldg., Rich-
 mond, Va.
 Scherzer Rolling Lift Bridge Co., 1616 Monad-
 nock Block, Chicago, Ill.
 Schott, W. H., Chicago, Ill.
 Shankland, E. C. & R. M., The Rookery, Chi-
 cago, Ill.
 SooySmith, Charles, 71 B'way, New York.
 Standard Concrete Steel Co., 31st, 32d St.,
 East River, New York.
 Tracy Engineering Co., The, Union Trust
 Bldg., Los Angeles, Cal.
 Tribus & Massa, 86 Warren St., New York.
 Tucker, Wm. C., 156 Fifth Ave., New York.
 Turner Construction Co., 11 B'way, N. Y.
 Turner-Forman Concrete Steel Co., 1201 Chest-
 nut St., Philadelphia, Pa.
 U. S. Wind Engine & Pump Co., 280 Water
 St., Batavia, Ill.
 Valley Iron Works, Williamsport, Pa.
 Virginia Bridge & Iron Co., Roanoke, Va.
 Waddell & Harrington, New Nelson Bldg.,
 Kansas City, Mo.
 Wallace & Co., Joseph H., Temple Court Bldg.,
 New York.
 Webster Mfg. Co., 1075 West 15th St., Chicago,
 Ill.; 88-90 Reade St., New York.
 Webster, Albert L., 43-49 Exchange Pl., N. Y.

Mention the "Record" when writing,

Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.
 Weston, Edmund B., 86 Weybosset St., Providence, R. I.
 Whipple, George C., 220 B'way, New York.
 White & Co., J. G., 41-43 Wall St., New York.
 Whitehead & Kales Iron Works, Detroit, Mich.
 Wilkins Co., W. G., Westinghouse Bldg., Pittsburg, Pa.
 Wilson, Harris & Richards, Drexel Bldg., Philadelphia, Pa.
 Wingfield, Nisbet, 811 Ellis St., Augusta, Ga.
 Wise & Watson, 34 Bloomfield Ave., Passaic, N. J.

Engineers' and Surveyors' Instruments

Buff & Buff, Jamaica Plain Station, Boston.

Engineers' and Surveyors' Instruments and Supplies

Ainsworth & Sons, Wm., Denver, Colo.
 American Injector Co., Congress & 7th Sts., Detroit, Mich.
 Architects & Engineers Supply Co., 1010 Grand Ave., Kansas City, Mo.
 Berger & Sons, C. L., 37 Williams St., Boston.
 Chicago Steel Tape Co., 6233 Cottage Grove Ave., Chicago, Ill.
 Dietzgen Co., Eugene, 181 Monroe St., Chicago.
 Fritz & Goedel Mfg., Co., 100 Alabama St., Grand Rapids, Mich.
 Hanna Mfg. Co., Troy, N. Y.
 Keuffel & Esser Co., Hoboken, N. J.
 Kolesch & Co., 138 Fulton St., New York.
 Ledder & Probst, 387 Washington St., Boston.
 Lufkin Rule Co., Saginaw, Mich.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Prince, L. M., 108 W. 4th St., Cincinnati, O.
 Seelig & Son, R., 170 East Madison St., Chicago, Ill.
 Surveyors Instrument Exchange, Philadelphia, Pa.
 Technical Supply Co., 46 East 14th St., N. Y.
 Wiebusch & Hilger, "Ltd.," 9 Murray St., N.Y.

Engineers (Civil and Consulting)

Foundation Co., The, 115 B'way, New York.

Engineers' Supplies

Powell Co., Wm., Cincinnati, Ohio.

Engines (Blowing)

Southwark Foundry & Machine Co., Phila., Pa.

Engines (Bridge-Erecting)

American Hoist & Derrick Co., St. Paul, Minn.
 Chandler, Geo. M., 42-9 North Illinois St., Indianapolis, Ind.
 Contractors Plant Mfg. Co., Buffalo, N. Y.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Lidgerwood Mfg. Co., 96 Liberty St., N. Y.

Mention the "Record" when writing.

Mead-Morrison Mfg. Co., Cambridge, Mass.
Shaw Co., Willis, 171 La Salle St., Chicago.

Engines (Compressed Air)

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Dake Engine Co., Grand Haven, Mich.
Ingersoll-Rand Co., 11 B'way, New York.

Engines (Compound)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Engines (Corliss)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.
Wisconsin Engine Co., Corliss, Wis.

Engines (Deep Well Pumping)

Abenaque Machine Works, Westminster Station, Vt.
American Well Works, Aurora, Ill.
Dake Engine Co., Grand Haven, Mich.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
Ingersoll-Rand Co., 11 Broadway, N. Y.
Mietz, August, 128-138 Mott St., New York.
Root & Van Dervoort Engineering Co., East Moline, Ill.
Union Steam Pump Co., Battle Creek, Mich.
U. S. Wind, Engine & Pump Co., 280 Water St., Batavia, Ill.
Westinghouse Machine Co., Pittsburg, Pa.

Engines (Direct-Connected and Belted)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Engines (Gas)

Allis-Chalmers Co., Milwaukee, Wis.
Minneapolis Steel & Machinery Co., Minneapolis, Minn.
Wisconsin Engine Co., Corliss, Wis.

Engines (Gas, Gasoline, Oil)

Abenaque Machine Works, Westminster Station, Vt.
Ashland Steel Range & Mfg. Co., The, Ashland, Ohio.
Blaisdell Machinery Co., The, Bradford, Pa.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Erie Pump & Engine Co., Erie, Pa.
Flint & Walling Mfg. Co., Kendallville, Ind.
Lake Erie Engineering Works, Buffalo, N. Y.
Lawrence Machine Co., Lawrence, Mass.
Mietz, August, 128-138 Mott St., New York.

Mention the "Record" when writing.

Moore & Sons Corp., Sam'l L., Front & Franklin Sts., Elizabethport, N. J.
Power & Mining Machinery Co., Cudahy, Wis.
Root & Van Dervoort Engineering Co., East Moline, Ill.

Struthers-Wells Co., Warren, Pa.

Sturtevant Mill Co., Harrison Sq., Boston.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Westinghouse Machine Co., Pittsburg, Pa.

Engines (Gasoline Pumping)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Engines (High-Duty Pumping)

Allis-Chalmers Co., Milwaukee, Wis.

Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.

Erie Pump & Engine Co., Erie, Pa.

Lawrence Machine Co., Lawrence, Mass.

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Prescott Steam Pump Co., Fred. M., Milwaukee, Wis.

Southwark Foundry & Machine Co., Philadelphia, Pa.

Tod Co., William, Youngstown, Ohio.

Traylor Engineering Co., 2 Rector St., N. Y.

Westinghouse Machine Co., Pittsburg, Pa.

Wisconsin Engine Co., Corliss, Wis.

Engines (Hoisting)

Abenague Machine Works, Westminster Station, Vt.

Allis-Chalmers Co., Milwaukee, Wis.

American Hoist & Derrick Co., St. Paul, Minn.

Bacon, Earle C., Havemeyer Bldg., N. Y.

Bartlett & Snow Co., C. O., Cleveland, Ohio.

Broderick & Bascom Rope Co., St. Louis, Mo.

Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.

Byers Machine Co., The John F., Ravenna, O.

Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.

Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.

Contractors Plant Mfg. Co., Buffalo, N. Y.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Dake Engine Co., Grand Haven, Mich.

Dobbie Foundry & Machine Co., Niagara Falls, N. Y.

Foote Concrete Machinery Co., 184 La Salle St., Chicago, Ill.

Hayward Co., The, 97 Cedar St., N. Y.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Lidgerwood Mfg. Co., 96 Liberty St., N. Y.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Mention the "Record" when writing.

Mead-Morrison Mfg. Co., Cambridge, Mass.
 Mietz, August, 128-138 Mott St., New York.
 Monighan Machine Co., 809-823 Carroll Ave.,
 Chicago, Ill.
 Morris & Co., I. P., Philadelphia, Pa.
 Northern Engineering Works, Detroit, Mich.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Ransome Concrete Machinery Co., Dunellen,
 N. J.
 Reliance Machine & Tool Works, St. Louis, Mo.
 Root & Van Dervoort Engineering Co., East
 Moline, Ill.
 Shaw Co., Willis, 171 La Salle St., Chicago.
 Traylor Engineering Co., 2 Rector St., N. Y.
 Wilcox Co., W. H., Binghamton, N. Y.
 Williamson Bros. Co., Aramingo Ave. & Cum-
 berland St., Philadelphia, Pa.
 Wisconsin Engine Co., Corliss, Wis.

Engines (Hot-Air)

Rider-Ericsson Engine Co., 35 Warren St., N.Y.

Engines (Marine)

Mietz, August, 128-138 Mott St., New York.

Engines (Oil)

Marine Engine & Machine Co., 230 West 13th
 St. New York.

Moore & Sons, Corp., Sam'l L., Front &
 Franklin Sts., Elizabethport, N. J.

Engines (Portable)

Abenague Machine Works, Westminster Sta-
 tion, Vt.

Bacon, Earle C., Havemeyer Bldg., N. Y.

Chicago House Wrecking Co., West 35th &
 Iron Sts., Chicago, Ill.

Climax Road Machine Co., Marathon, N. Y.

Erie Pump & Engine Co., Erie, Pa.

Mietz, August, 128-138 Mott St., New York.

Monarch Road Roller Co., Groton, Tompkins
 Co., New York.

Moore & Sons, Corp., Sam'l L., Front & Frank-
 lin Sts., Elizabethport, N. J.

Morris Machine Works, Baldwinsville, N. Y.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Root & Van Dervoort Engineering Co., East
 Moline, Ill.

Sturtevant Mill Co., Harrison Sq., Boston.

Engines (Reversing)

Southwark Foundry & Machine Co., Phila., Pa.

Engines (Roller-Mill)

Minneapolis Steel & Machinery Co., Minnea-
 polis, Minn.

Engines (Stationary)

Abenague Machine Works, Westminster Sta-
 tion, Vt.

Bacon, Earle C., Havemeyer, Bldg., N. Y.

Buffalo Forge Co., Buffalo, N. Y.

Mention the "Record" when writing.

Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.
 Climax Road Machine Co., Marathon, N. Y.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Dake Engine Co., Grand Haven, Mich.
 Erie Pump & Engine Co., Erie, Pa.
 Granger Co., A. D., 90 West St., New York.
 Green Fuel Economizer Co., Matteawan, N. Y.
 Lawrence Machine Co., Lawrence, Mass.
 Leffel & Co., James, Springfield, Ohio.
 Mietz, August, 128-138 Mott St., New York.
 Moore & Sons Corp., Sam'l L., Front & Franklin Sts., Elizabethport, N. J.
 Morris Machine Works, Baldwinsville, N. Y.
 Root & Van Dervoort Engineering Co., East Moline, Ill.
 Southwark Foundry & Machine Co., Phila., Pa.
 Sturtevant Mill Co., Harrison Sq., Boston.
 Sturtevant Co., B. F., Hyde Park, Mass.
 Traylor Engineering Co., 2 Rector St., N. Y.
 Valley Iron Works, Williamsport, Pa.
 Westinghouse Machine Co., Pittsburg, Pa.
 York Manufacturing Co., York, Pa.

Engines (Steam)

Allis-Chalmers Co., Milwaukee, Wis.
 American Blower Co., Detroit, Mich.
 Bacon, Earle C., Havemeyer Bldg., N. Y.
 Buffalo Forge Co., Buffalo, N. Y.
 Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
 Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Dake Engine Co., Grand Haven, Mich.
 Erie Mfg. & Supply Co., Erie, Pa.
 Erie Pump & Engine Co., Erie, Pa.
 Foote Concrete Machinery Co., 184 La Salle St., Chicago, Ill.
 Green Fuel Economizer Co., Matteawan, N. Y.
 Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
 International F. & Fireproofing Co., Columbus, Ohio.
 Lawrence Machine Co., Lawrence, Mass.
 McIntosh, Seymour & Co., 26 Cortl'dt St., N.Y.
 Minneapolis Steel & Machinery Co., Minneapolis, Minn.
 Morris Machine Works, Baldwinsville, N. Y.
 New York Blower Co., Chicago, Ill.
 Ransome Concrete Machinery Co., Dunellen, N. J.
 Ridgway Dynamo & Engine Co., Ridgway, Pa.
 Southwark Foundry & Machine Co., Phila., Pa.
 Struthers-Wells Co., Warren, Pa.
 Sturtevant Mill Co., Harrison Sq., Boston.
 Sturtevant Co., B. F., Hyde Park, Mass.

Mention the "Record" when writing.

Tod Co., William, Youngstown, Ohio.
Traylor Engineering Co., 2 Rector St., N. Y.
Valley Iron Works, Williamsport, Pa.
Westinghouse Machine Co., Pittsburg, Pa.
Wetherill Bros. Machine Co., Chester, Pa.
Wilcox Co., W. H., Binghamton, N. Y.
Wisconsin Engine Co., Corliss, Wis.

Engines (Traction)

Avery Mfg. Co., Peoria, Ill.
Chicago House Wrecking Co., West 35th &
Iron Sts., Chicago, Ill.
Climax Road Machine Co., Marathon, N. Y.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
Mietz, August, 128-138 Mott St., New York.
Monarch Road Roller Co., Groton, Tompkins
Co., New York.
Shaw Co., Willis, 171 La Salle St., Chicago.
Sturtevant Mill Co., Harrison Sq., Boston.

Engines (Traction-Gasoline)

Abenague Machine Works, Westminster Sta-
tion, Vt.

Evaporators

Williamson Bros., Co., Aramingo Ave., & Cum-
berland Sts., Philadelphia, Pa.

Excavating Machinery

Atlantic Gulf & Pacific Co., Park Row Bldg.,
New York.
Austin Drainage Excavator Co., F. C., Rail-
way Exchange, Chicago, Ill.
Bucyrus Co., The, So. Milwaukee, Wis.
Carson Trench Machine Co., 16 Dorrance St.,
Boston, Mass.
Chandler, Geo. M., 42-9 North Illinois St., In-
dianapolis, Ind.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Hayward Co., The, 97 Cedar St., New York.
Hough Co., William B., 1336-7 Monadnock
Block, Chicago, Ill.
Indiana Road Machine Co., Fort Wayne, Ind.
Ingersoll-Rand Co., 11 B'way, New York.
Jackson, George W., "Inc.," 169-179 W. Jack-
son Boulevard, Chicago, Ill.
Kiesler Co., The, 82 Pratt St., Chicago, Ill.
Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.
Leschen & Sons Rope Co., A., St. Louis, Mo.
Lidgerwood Mfg. Co., 96 Liberty St., N. Y.
Marion Steam Shovel Co., The, 640 West Cen-
ter St., Marion, Ohio.
Monighan Machine Co., 809-823 Carroll Ave.,
Chicago, Ill.
Municipal Engineering & Contracting Co.,
Jackson Boulevard & Michigan Ave., Chi-
cago, Ill.

Mention the "Record" when writing.

Parsons Co., G. W., 306 Observatory Bldg.,
Des Moines, Ia.
Potomac Dredging Co., 24-25 Home Life Bldg.,
Washington, D. C.
Power & Mining Machinery Co., Cudahy, Wis.
Shaw Co., Willis, 171 La Salle St., Chicago.
Standard Sand & Machine Co., Cleveland, O.
Thew Automatic Shovel Co., Lorain, Ohio.
Webster Mfg. Co., 1075 West 15th St., Chi-
cago, Ill.; 88-90 Reade St., New York.
Wetherill Bros. Machine Co., Chester, Pa.

Exhaust Fans and Blowers (Motor-Driven)

General Electric Co., Schenectady, N. Y.

Exhaust Heads

American Spiral Pipe Works, 14th St. & 48th
Ave., Chicago, Ill.
Buffalo Forge Co., Buffalo, N. Y.
Burt Mfg. Co., Akron, Ohio.
Clow & Sons, James B., Chicago, Ill.
Sturtevant Co., B. F., Hyde Park, Mass.

Exhausters, Planing-Mill

Green Fuel Economizer Co., Matteawan, N.Y.

Expanded Metal (See Fireproof Construction)

Associated Expanded Metal Cos., 221 Fifth
Ave., New York.
Berger Mfg. Co., The, Canton, Ohio.
Darby & Sons Co., "Inc.," Edw., Phila., Pa.
Garry Iron & Steel Co., Cleveland, Ohio.
General Fireproofing Co., The, Youngstown,
Ohio.
Hough Co., William B., 1336-7 Monadnock
Block, Chicago, Ill.
Northwestern Expanded Metal Co., Old Colony
Bldg., Chicago, Ill.
Roebbling Construction Co., The, Fuller Bldg.,
B'way, & 23d St., New York.
Trussed Concrete Steel Co., Detroit, Mich.

Expanded Metal Lockers

Darby & Sons Co., "Inc.," Edw., Phila., Pa.
General Fireproofing Co., The, Youngstown, O.
Merritt & Co., 1015 Ridge Ave., Phila., Pa.

Expansion Joints

American District Steam Co., Lockport, N. Y.

Explorers

Ætna Powder Co., The, Chicago, Ill.
du Pont de Nemours Powder Co., E. I., Wil-
mington, Dl.
Ingersoll-Rand Co., 11 B'way, New York.
McKiernan Drill Co., 115 B'way, New York.
National Powder Co., 353 Fifth Ave., N. Y.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Sinnamahoning Powder Mfg. Co., Emporium,
Pa.

Mention the "Record" when writing.

Explosives

Ætna Powder Co., The, Chicago, Ill.
du Pont de Nemours Powder Co., E. I., Wil-
mington, Del.
Ingersoll-Rand Co., 11 B'way, New York.
Keystone Powder Mfg. Co., Emporium, Pa.
National Powder Co., 353 Fifth Ave., N. Y.
Sinnamahoning Powder Mfg. Co., Emporium,
Pa.

Eyes (Wire Rope)

Leschen & Sons Rope Co., A., St. Louis, Mo.

Factory Chimneys

Heinicke, H. R., 147 Fourth Ave., New York.

Fan System of Heating and Ven- tilating

American Blower Co., Detroit, Mich.

Fans

Allis-Chalmers Co., Milwaukee, Wis.
American Blower Co., Detroit, Mich.
Buffalo Forge Co., Buffalo, N. Y.
D'Olier Engineering Co., 121 South 11th St.,
Philadelphia, Pa.
General Electric Co., Schenectady, N. Y.
Green Fuel Economizer Co., Matteawan, N.Y.
International Electric & Engineering Co., 148
Chambers St., New York.
New York Blower Co., Chicago, Ill.
Raymond Bros. Impact Pulverizer Co., 143
Lafin St., Chicago, Ill.
Sturtevant Co., B. F., Hyde Park, Mass.
Traylor Engineering Co., 2 Rector St., N. Y.
Westinghouse Machine Co., Pittsburg, Pa.

Fans (Electric)

(Exhausts and Forced Draft)

C. & C. Electric Co., The, Garwood, N. J.
General Electric Company, Schenectady, N. Y.

Fasteners (Sheet Roofing)

American Steel & Wire Co., Commercial Nat'l
Bank Bldg., Chicago, Ill.

Feed-Water Heaters

Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.
Chicago House Wrecking Co., West 35th &
Iron Sts., Chicago, Ill.
Erie Mfg. & Supply Co., Erie, Pa.
Green Fuel Economizer Co., Matteawan, N. Y.
Kewanee Boiler Co., Kewanee, Ill.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Petroleum Iron Works Co., The, Sharon, Pa.
Pittsburg Filter Mfg. Co., Farmers Bank Bldg.,
Pittsburg, Pa.
Scaife & Sons Co., Wm. B., Pittsburg, Pa.
Sharon Boiler Works, Sharon, Pa.
Webster Co., Warren, Camden, N. J.
Williamson Bros. Co., Aramingo Ave., & Cum-
berland St., Philadelphia, Pa.

Mention the "Record" when writing.

Feed-Water Purifiers

Marion Incline Filter & Heater Co., Marion, O.

Felt

Bayer, J. C., Front & Market Sts., Portland, Ore.

Warren-Ehret Co., 1204 Land Title Bldg., Philadelphia, Pa.

Fence and Railing

Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.

Darby & Sons Co., "Inc.," Edw., Phila., Pa.

Douglas, Geo. B., 29 B'way, New York.

International F. & Fireproofing Co., Columbus, Ohio.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Whitehead & Kales Iron Works, Detroit, Mich.

Fence, Railing and Posts

Anchor Post Iron Works, 147 Nassau St., N. Y.

Ferry Ropes and Travelers

Leschen & Sons Rope Co., A., St. Louis, Mo.

Filing Cases

General Fireproofing Co., The, Youngstown, Ohio.

Filing Cases (Metal)

Art Metal Construction Co., Jamestown, N. Y.

Filters (Feed-Water)

Pittsburg Filter Mfg. Co., Farmers Bank Bldg., Pittsburg, Pa.

Scaife & Sons Co., Wm. B., Pittsburg, Pa.

Filters (Rate-Controlling)

Simplex Valve & Meter Co., 112 North Broad St., Philadelphia, Pa.

Filters (Water)

Bunting Co., J. E., Flatiron Bldg., N. Y.

Lynn Filter Mfg. Co., Cincinnati, Ohio.

New York Cont. Jewell Filter Co., 15 Broad St., New York.

Pittsburg Filter Mfg. Co., Farmers Bank Bldg., Pittsburg, Pa.

Roberts Filter Mfg. Co., Phila., Pa.

Scaife & Sons Co., Wm. B., Pittsburg, Pa.

Simplex Valve & Meter Co., 112 North Broad St., Phila., Pa.

U. S. Cast Iron Pipe & Foundry Co., 71 B'way, New York.

Fire Brick and Fire Clay

Buckeye Fire Clay Co., Uhrichville, Ohio.

Evans & Howard Fire Brick Co., St. Louis, Mo.

Patton Clay Mfg. Co., Patton, Penna.

Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.

Robinson Clay Product Co. of N. Y., Flatiron Bldg., New York.

Mention the "Record" when writing.

Upton, F. R., 9 Clinton St., Newark, N. J.
Warner Co., Charles, Wilmington, Del.

Fire Department Supplies

International Electric & Engineering Co., 148
Chambers St., New York.

Fire Escapes (Steel)

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Fire Extinguishers

Badger & Sons Co., E. B., 63-75 Pitts St.,
Boston, Mass.

Grosche & Co., Bruno, 23 Jones Lane, N. Y.
International Electric & Engineering Co., 148
Chambers St., New York.

Johns-Manville Co., H. W., 100 William St.,
New York.

Kanawha Chemical Engine Mfg. Co., Charles-
ton, W. Va.

Fireproof Construction

Aberthaw Construction Co., 8 Beacon St., Bos-
ton, Mass.

American Concrete-Steel Co., Union Bldg.,
Newark, N. J.

American System of Reinforcing, 189 La Salle
St., Chicago, Ill.

Associated Expanded Metal Cos., 221 Fifth
Ave., New York.

Bayer, J. C., Front & Market Sts., Portland,
Ore.

Bellefontaine Bridge & Steel Co., Bellefon-
taine, Ohio.

Belmont Iron Works, 22d St. & Washington
Ave., Philadelphia, Pa.

Berger Mfg. Co., The, Canton, Ohio.

Bunting Co., J. E., Flatiron Bldg., New York.

Clinton Wire Cloth Co., Clinton, Mass.

Darby & Sons Co., "Inc.," Edw., Phila., Pa.

Decatur Bridge Co., Decatur, Ill.

Expanded Metal & Corrugated Bar Co., Frisco
Bldg., St. Louis, Mo.

Ferro-Concrete Construction Co., Richmond &
Harriet Sts., Cincinnati, Ohio.

Gabriel Concrete Reinforcement Co., 1206-1208
Penobscot Bldg., Detroit, Mich.

Garry Iron & Steel Co., Cleveland, Ohio.

General Fireproofing Co., The, Youngstown, O.

Goff-Horner & Co., "Ltd.," Frick Bldg., Pitts-
burg, Pa.

Hennebique Construction Co., 1170 B'way, N.Y.

Hough Co., William B., 1336-7 Monadnock
Block, Chicago, Ill.

International F. & Fireproofing Co., Columbus,
Ohio.

Jackson, George W., "Inc.," 169-179 W. Jack-
son Boulevard, Chicago, Ill.

Johns-Manville Co., H. W., 100 William St.,
New York.

Mention the "Record" when writing.

Maxwell Concrete Steel Co., 516 Penobscot Bldg., Detroit, Mich.
 National Fire Proofing Co., 115 Adams St., Chicago, Ill.
 Noelke-Richards Iron Works, Indianapolis, Ind.
 Northwestern Expanded Metal Co., Old Colony Bldg., Chicago, Ill.
 Portland Iron & Steel Co., Board of Trade Bldg., Boston, Mass.
 Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.
 Raymond Concrete Pile Co., 135 Adams St., Chicago, Ill.
 Riverside Bridge Co., Martins Ferry, Ohio.
 Rodgers Company, The, Monadnock Block, Chicago, Ill.
 Roebling Construction Co., The, Fuller Bldg., B'way & 23d St., New York.
 Standard Concrete Steel Co., 31st, 32d Sts., East River, New York.
 Trussed Concrete Steel Co., Detroit, Mich.
 Turner Construction Co., 11 B'way, New York.
 Whitehead & Kales Iron Works, Detroit, Mich.

Fireproof Doors

Bayer, J. C., Front & Market Sts., Portland, Ore.
 Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.
 Berger Mfg. Co., The, Canton, Ohio.
 Decatur Bridge Co., Decatur, Ill.
 General Fireproofing Co., The, Youngstown, O.
 Johns-Manville Co., H. W., 100 William St., New York.
 Lupton's Sons Co., David, Phila., Pa.
 Mesker & Bro., 421 So. 6th St., St. Louis, Mo.
 Winslow Co., E. J., 138 Jackson Boulevard, Chicago, Ill.

Fireproof Windows

Bayer, J. C., Front & Market Sts., Portland, Ore.
 Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.
 Lupton's Sons Co., David, Phila., Pa.
 Mesker & Bro., 421 So. 6th St., St. Louis, Mo.
 Mullins Co., W.H., 342 Franklin St., Salem, O.
 Van Noorden Co., E., 950 Massachusetts Ave., Boston, Mass.

Fireproofing Materials

Berger Mfg. Co., The, Canton, Ohio.
 Calumet Steel Co., Commercial Nat'l Bank Bldg., Chicago, Ill.
 Expanded Metal & Corrugated Bar Co., Frisco Bldg., St. Louis, Mo.
 General Fireproofing Co., The, Youngstown, Ohio.
 Goff Horner & Co., "Ltd.," Frick Bldg., Pittsburgh, Pa.
 Grosche & Co., Bruno, 23 Jones Lane, N. Y.

Mention the "Record" when writing.

International F. & Fireproofing Co., Columbus, Ohio.

Johns-Manville Co., H. W., 100 William St., New York.

Noelke-Richards Iron Works, Indianapolis, Ind.

Patton Clay Mfg. Co., Patton, Pa.

Portland Iron & Steel Co., Board of Trade Bldg., Boston, Mass.

Potomac Dredging Co., 24-25 Home Life Bldg., Washington, D. C.

Standard Concrete Steel Co., 31st, 32d Sts., East River, New York.

Trussed Concrete Steel Co., Detroit, Mich.

Warren-Ehret Co., 1204 Land Title Bldg., Philadelphia, Pa.

Fittings (Wire Rope)

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Fixtures (Electric and Gas)

International Electric & Engineering Co., 148 Chambers St., New York.

Flanges

American Spiral Pipe Works, 14th St. & 48th Ave., Chicago, Ill.

Scully Steel & Iron Co., Chicago, Ill.

Flanges (Steel)

American Spiral Pipe Works, 14th St. & 48th Ave., Chicago, Ill.

Floor Plates

Scully Steel & Iron Co., Chicago, Ill.

Floor Stands

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Flooring (Mastic)

Standard Asphalt & Rubber Co., 944 First Nat'l Bank Bldg., Chicago, Ill.

Flue Linings

Bayer, J. C., Front and Market Sts., Portland, Ore.

Buckeye Fire Clay Co., Uhrichville, Ohio.

Johns-Manville Co., H. W., 100 Wm. St., N. Y.

N. Y. State Sewer Pipe Co., Rochester, N. Y.

Patton Clay Mfg. Co., Patton, Pa.

Robinson Clay Product Co. of New York, Flatiron Bldg., New York.

Warner Co., Charles, Wilmington, Del.

Fly-Wheels

Southwark Foundry & Machine Co., Phila.

Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Forced-Draft Equipment

American Blower Co., Detroit, Mich.

Forges

Scully Steel & Iron Co., Chicago, Ill.

Mention the "Record" when writing.

Forges (Rivet-Heating)

Buffalo Forge Co., Buffalo, N. Y.
Ingersoll-Rand Co., 11 B'way, New York.
Perrin, Seamans & Co., 57 Oliver St., Boston.

Forges (Stationary and Portable)

Buffalo Forge Co., Buffalo, N. Y.
Ingersoll-Rand Co., 11 B'way, New York.
New York Blower Co., Chicago, Ill.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Sturtevant Co., B. F., Hyde Park, Mass.

Forging Machines

Scully Steel & Iron Co., Chicago, Ill.

Forgings (Steel)

American Spiral Pipe Works, 14th St. and 48th Ave., Chicago, Ill.
Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.
Cleveland City Forge & Iron Co., Cleveland, Ohio.
Douglas, Geo. B., 29 B'way, New York
Mesker & Bro., 421 So. 6th St., St. Louis, Mo.
Pennsylvania Steel Co., The, Philadelphia, Pa.
Pittsburg Mfg. Co., Pittsburg, Pa.
Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.
Prosser & Sons, Thos. ("Krupp"), 15 Gold St., New York.
Traylor Engineering Co., 2 Rector St., N. Y.
Williams & Co., J. H., Brooklyn, N. Y.

Forgings (Steel, Heavy)

Edge Moor Iron Co., Edge Moor, Del.

Forgings (Steel),

(Heavy and Light)

Patterson Co., W. W., Pittsburg, Pa.

Foundations

Clinton Bridge & Iron Works, Clinton, Ia.
Foundation Co., The, 115 B'way, New York.
Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.
O'Rourke Engineering Construction Co., 345 Fifth Ave., New York.
Pneumatic Caisson Co., Troy, N. Y.
Raymond Concrete Pile Co., 135 Adams St., Chicago, Ill.
Rodgers Co., The, Monadnock Block, Chicago.
Rogers Co., J. S., Moorestown, N. J.
Scully Foundation & Transportation Co., John T., 84 First St., Cambridge, Mass.

Foundations (Reinforced Concrete)

Hennebique Construction Co., 1170 B'way, New York.

Foundry Equipment and Supplies

American Blower Co., Detroit, Mich.
Cleveland Crane & Car Co., Wickliffe, Ohio.
Ingersoll-Rand Co., 11 B'way, New York.

Mention the "Record" when writing.

Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.

Lombard Iron Works & Supply Co., Augusta,
Ga.

Northern Engineering Works, Detroit, Mich.

Standard Sand & Machine Co., Cleveland, O.

Sterling Wheelbarrow Co., Milwaukee, Wis.

Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Youngstown Car Mfg. Co., Youngstown, O.

Fountains (Lawn and Drinking)

Stewart Iron Works Co., The, Cincinnati, O.

Frogs and Switches (Railway)

Douglas, Geo. B., 29 B'way, New York.

Indianapolis Switch & Frog Co., Springfield,
Ohio.

Jackson, George W., "Inc.," 169-179 W. Jack-
son Boulevard, Chicago, Ill.

Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.

Pennsylvania Steel Co., The, Phila., Pa.

Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Wonham-Magor Engineer's Works, 29 B'way,
New York.

Youngstown Car Mfg. Co., Youngstown, O.

Fuel Economizers

Green Fuel Economizer Co., Matteawan, N.Y.

Sturtevant Co., B. F., Hyde Park, Mass.

Furnaces (Garbage and Refuse)

Pittsburg Tubular Steel Whiffletree Co., Pitts-
burg, Pa.

Furnaces (Lead)

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Smith Mfg. Co., A. P., Passaic Ave., New-
ark, N. J.

Union Iron Works, The, Hoboken, N. J.

Furnaces (Rivet)

Scully Steel & Iron Co., Chicago, Ill.

Furnaces (Smokeless)

Green Fuel Economizer Co., Matteawan, N.Y.

Murphy Iron Works, Detroit, Mich.

Furniture and Office Fittings

Berger Mfg. Co., The, Canton, Ohio.

Chicago House Wrecking Co., W. 35th and
Iron Sts., Chicago, Ill.

General Fireproofing Co., The, Youngstown,
Ohio.

Fuse

du Pont de Nemours Powder Co., E. I., Wil-
mington, Del.

Johns-Manville Co., H. W., 100 Wm. St., N.Y.

McKiernan Drill Co., 115 B'way, N. Y.

National Powder Co., 353 Fifth Ave., N. Y.

Sinmahoning Powder Mfg. Co., Emporium,
Pa.

Mention the "Record" when writing.

Gages (Smith Curve-Lining)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Gages (Track)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Galvanized Angles, Bars, Channels, Etc.

Scully Steel & Iron Co., Chicago, Ill.

Garbage Crematories

Lewis & Kitchen, 433 Wabash Ave., Chicago.

Garbage Disposal (See Furnaces, Garbage and Refuse)

Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.

Garbage Wagons

Watson Wagon Co., Canastota, N. Y.

Gas Compressors

Ingersoll-Rand Co., 11 B'way, New York.

Gas Exhausters

American Blower Co., Detroit, Mich.

D'Olier Engineering Co., 121 South 11th St., Philadelphia, Pa.

Green Fuel Economizer Co., Matteawan, N.Y.

Power & Mining Machinery Co., Cudahy, Wis.

Sturtevant Co., B. F., Hyde Park, Mass.

Gas Holders

Petroleum Iron Works Co., The, Sharon, Pa.

Power & Mining Machinery Co., Cudahy, Wis.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Tippett & Wood, Phillipsburg, N. J.

Wood & Co., R. D., 400 Chestnut St., Phila.

Gas Machinery

D'Olier Engineering Co., 121 South 11th St., Philadelphia, Pa.

Green Fuel Economizer Co., Matteawan, N.Y.

Ingersoll-Rand Co., 11 B'way, New York.

Power & Mining Machinery Co., Cudahy, Wis.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Westinghouse Machine Co., Pittsburg, Pa.

Wisconsin Engine Co., Corliss, Wis.

Wood & Co., R. D., 400 Chestnut St., Phila.

Gas Producers

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Morgan Construction Co., Worcester, Mass.

Wood & Co., R. D., 400 Chestnut St., Phila.

Gas Scrubbers

Graver Tank Works, Wm., East Chicago, Ind.

Gas Works Construction

Riter-Conley Mfg. Co., Pittsburg, Pa.

Gaskets

American Spiral Pipe Works, 14th St. and 48th Ave., Chicago, Ill.

Mention the "Record" when writing.

Johns-Manville Co., H. W., 100 Wm. St., N.Y.
Power Specialty Co., 111 B'way, New York.

Gaskets (Copper)

American District Steam Co., Lockport, N. Y.

Gates and Valves

Clow & Sons, James B., Chicago, Ill.
Lombard Iron Works & Supply Co., Augusta,
Ga.
National Wood Pipe Co., 404 Equitable Bank
Bldg., Los Angeles, Cal.
Pittsburgh Mfg. Co., Pittsburgh, Pa.
Smith Co., S. Morgan, York, Pa.
U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.

Gates (Iron Entrance)

Anchor Post Iron Works, 147 Nassau St.,
New York.
Belmont Iron Works, 22d St. and Washington
Ave., Philadelphia, Pa.
Darby & Sons Co., "Inc.," Edw., Phila.
International F. & Fireproofing Co., Colum-
bus, Ohio.
Lombard Iron Works & Supply Co., Augusta,
Ga.
Stewart Iron Works Co., The, Cincinnati, O.
Whitehead & Kales Iron W'ks, Detroit, Mich.

Gates (Ore Bin)

Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

Gates (Sluice)

Pittsburgh Mfg. Co., Pittsburgh, Pa.

Gauges (Loss of Head and Rate of Flow)

Simplex Valve & Meter Co., 112 N. Broad St.,
Philadelphia, Pa.

Gauges (Steam)

American District Steam Co., Lockport, N. Y.
Ashton Valve Co., The, Boston, Mass.
Clow & Sons, James B., Chicago, Ill.
Lombard Iron Works & Supply Co., Augusta,
Ga.
Lunkenheimer Co., Cincinnati, Ohio.
Manning, Maxwell & Moore, 85-89 Liberty
St., New York.

Gearings

Chain Belt Co., Milwaukee, Wis.
Lombard Iron Works & Supply Co., Augusta,
Ga.
Valley Iron Works, Williamsport, Pa.
Webster Mfg. Co., 1075 W. 15th St., Chicago,
Ill.; 88-90 Reade St., New York.
Wetherill Bros. Machine Co., Chester, Pa.

Gears (Cut)

Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

Mention the "Record" when writing.

Gears for Dredges

Bucyrus Co., The, So. Milwaukee, Wis.
Wetherill Bros. Machine Co., Chester, Pa.

Gears for Steam Shovels

Bucyrus Co., The, So. Milwaukee, Wis.

Gears (Machine Molded)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Gears (Worm)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Generating Sets

Mietz, August, 128-138 Mott St., New York.
Sturtevant Co., B. F., Hyde Park, Mass.

Generators (Electric)

(Direct and Alternating-Current)

General Electric Co., Schenectady, N. Y.

Girders

Riverside Bridge Co., Martin's Ferry, Ohio.

Gloves

Johns-Manville Co., H. W., 100 Wm. St., N.Y.

Governors (Water-Wheel)

Allis-Chalmers Co., Milwaukee, Wis.

Graders (Elevating)

Indiana Road Machine Co., Fort Wayne, Ind.

Graders and Scrapers, Earth (See Road Machinery)

Climax Road Machine Co., Marathon, N. Y.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Indiana Road Machine Co., Fort Wayne, Ind.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Shaw Co., Willis, 171 La Salle St., Chicago.

Grain Elevators and Storage Tanks

Chain Belt Co., Milwaukee, Wis.

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.

Graver Tank Works, Wm., East Chicago, Ind.

Kenwood Bridge Co., 1416 First National Bank Bldg., Chicago, Ill.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Rodgers Co., The, Monadnock Block, Chicago, Ill.

Steel Storage & Elevator Construction Co., Buffalo, N. Y.

Grain Elevator Builders

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Mention the "Record" when writing.

Graphite

Clow & Sons, James B., Chicago, Ill.
Dixon's Crucible Co., Joseph, Jersey City,
N. J.

Grates

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Dake Engine Co., Grand Haven, Mich.
Green Engineering Co., Commercial National
Bank Bldg., Chicago, Ill.
Lombard Iron Works & Supply Co., Augusta,
Ga.
Walsh's Holyoke Steam Boiler Works, Hol-
yoke, Mass.
Willoughby, A. B., Philadelphia, Pa.

Gravel Roofing

Bayer, J. C., Front and Market Sts., Port-
land, Ore.

Gravity Incline Machines

Bacon, Earle C., Havemeyer Bldg., New York.

Grease Cups

Powell Co., William, Cincinnati, Ohio.

Greases

Dixon's Crucible Co., Joseph, Jersey City, N.J.

Grinders for Limestone, Gypsum, Lime, Clay and Shale, Coal, Green Garbage, Tankage or Bone, Brick- Bats, Cinders, Etc.

Allis-Chalmers Co., Milwaukee, Wis.
Kent Mill Co., 170 B'way, New York.
Lehigh Car, Wheel & Axle Works, Catasau-
qua, Pa.
Power & Mining Machinery Co., Cudahy, Wis.
Prosser & Sons, Thos. ("Krupp"), 15 Gold
St., New York.
Raymond Bros. Impact Pulverizer Co., 143
Laflin St., Chicago, Ill.
Smidth & Co., F. L., 39-41 Cortlandt St., N. Y.
Sturtevant Mill Co., Harrison Sq., Boston.
Valley Iron Works, Williamsport, Pa.
Williams Patent Crusher & Pulverizer Co.,
Chicago, Ill.

Grinding and Mixing Machinery

Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.
Chandler, Geo. M., 42-9 N. Illinois St., In-
dianapolis, Ind.
Dunning, W. D., Water St., Syracuse, N. Y.
Hough Co., William B., 1336-7 Monadnock
Block, Chicago, Ill.
Kent Mill Co., 170 B'way, New York.
Lehigh Car, Wheel & Axle Works, Catasau-
qua, Pa.
Power & Mining Machinery Co., Cudahy, Wis.
Ransome Concrete Machinery Co., Dunellen,
N. J.

Mention the "Record" when writing.

Raymond Bros. Impact Pulverizer Co., 143
Lafin St., Chicago, Ill.

Smidth & Co., F. L., 41 Cortlandt St., N. Y.

Sturtevant Mill Co., Harrison Sq., Boston.

Traylor Engineering Co., 2 Rector St., N. Y.

Grinding Machines (Portable, Pneumatic)

Independent Pneumatic Tool Co., Chicago and
New York.

Grinding Mills

Sturtevant Mill Co., Harrison Sq., Boston.

Grubbers

Leschen & Sons Rope Co., A., St. Louis, Mo.

Hammers

Scully Steel & Iron Co., Chicago, Ill.

Hammers (Drop)

Scully Steel & Iron Co., Chicago, Ill.

Hammers (Pneumatic)

Scully Steel & Iron Co., Chicago, Ill.

Hand Cars

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Hangers (Joist)

Belmont Iron Works, 22d St. and Washington
Ave., Philadelphia, Pa.

Lombard Iron Works & Supply Co., Augusta,
Ga.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Pittsburgh Mfg. Co., Pittsburgh, Pa.

Trussed Concrete Steel Co., Detroit, Mich.

Hawsers

Leschen & Sons Rope Co., A., St. Louis, Mo.

Hawsers (Manila)

American Mfg. Co., 65 Wall St., New York.

Heads (Flanged and Dished Boiler)

Scully Steel & Iron Co., Chicago, Ill.

Heaters (Air)

Green Fuel Economizer Co., Matteawan, N. Y.

Heaters (Electric)

General Electric Co., Schenectady, N. Y.

International Electric & Engineering Co., 148
Chambers St., New York.

Johns-Manville Co., H. W., 100 Wm. St., N.Y.

Heaters (Feed-Water)

Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

Heaters (Hot-Blast)

Green Fuel Economizer Co., Matteawan, N. Y.

Heating and Ventilating Mach'y

American Blower Co., Detroit, Mich.

American District Steam Co., Lockport, N. Y.

Bayer, J. C., Front and Market Sts., Port-
land, Ore.

Clow & Sons, James B., Chicago, Ill.

Mention the "Record" when writing.

Green Fuel Economizer Co., Matteawan, N. Y.
New York Blower Co., Chicago, Ill.
Sturtevant Co., B. F., Hyde Park, Mass.

Heating and Ventilating Systems

Andrews & Johnson Co., Chicago, Ill.
Webster Co., Warren, Camden, N. J.

Hoist and Grab Hooks

Patterson Co., W. W., Pittsburg, Pa.

Hoisting Rope

American Mfg. Co., 65 Wall St., New York.

Hoists (Chain)

Chisholm & Moore Mfg. Co., Cleveland, O.
Reading Crane & Hoist Works, Reading, Pa.

Hoists (Chain and Rope)

American Steel & Wire Co., Commercial Nat'l
Bank Bldg., Chicago, Ill.

Hoists (Electric)

Allis-Chalmers Co., Milwaukee, Wis.
Bacon, Earle C., Havemeyer Bldg., N. Y.
Brown Hoisting Machinery Co., The, 4403 St.
Clair Ave., Cleveland, Ohio.
C. & C. Electric Co., The, Garwood, N. J.
Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.
Cleveland Crane & Car Co., Wickliffe, Ohio.
Contractors Plant Mfg. Co., Buffalo, N. Y.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Dobbie Foundry & Mach. Co., Niagara Falls,
N. Y.

General Electric Co., Schenectady, N. Y.
Grable-Dunn Co., The, 19 Huron St., Chicago.
Hayward Co., The, 97 Cedar St., New York.
Hough Co., William B., 1336-7 Monadnock
Block, Chicago, Ill.
Lidgerwood Mfg. Co., 96 Liberty St., N. Y.
Manning, Maxwell & Moore, 85-89 Liberty St.,
New York.

Maris Bros., 56th and Gray's Ave., Phila.
Mead-Morrison Mfg. Co., Cambridge, Mass.
New York Cableway & Engineering Co., 2
Rector St., New York.
Northern Engineering Works, Detroit, Mich.
Parker Hoist & Machine Co., 971 N. Francisco
Ave., Chicago, Ill.

Perrin, Seamans & Co., 57 Oliver St., Boston.
Scully Steel & Iron Co., Chicago, Ill.
Williamson Bros. Co., Aramingo Ave. and
Cumberland St., Philadelphia, Pa.
Wonham-Magor Engineering Works, 29 B'way,
New York.

Hoists (Gasoline)

Abenague Machine Works, Westminster Sta-
tion, Vt.
Root & Van Dervoort Engineering Co., East
Moline, Ill.

Mention the "Record" when writing.

Hoists (Hand)

Scully Steel & Iron Co., Chicago, Ill.

Hoists (Head Gate)

Smith Co., S. Morgan, York, Pa.

Hoists (Pneumatic)

Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.

Contractors Plant Mfg. Co., Buffalo, N. Y.

Dake Engine Co., Grand Haven, Mich.

Independent Pneumatic Tool Co., Chicago and New York.

Ingersoll-Rand Co., 11 B'way, New York.

New York Cableway & Engineering Co., 2 Rector St., New York.

Northern Engineering Works, Detroit, Mich.

Scully Steel & Iron Co., Chicago, Ill.

Wonham-Magor Engineering Works, 29 B'way, New York.

Hoists (Steam)

Abenague Machine Works, Westminster Station, Vt.

Allis-Chalmers Co., Milwaukee, Wis.

American Hoist & Derrick Co., St. Paul, Minn.

Bacon, Earle C., Havemeyer Bldg., New York

Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.

Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.

Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.

Cleveland Crane & Car Co., Wickliffe, Ohio.

Contractors Plant Mfg. Co., Buffalo, N. Y.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Dake Engine Co., Grand Haven, Mich.

Foote Concrete Machinery Co., 184 La Salle St., Chicago, Ill.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Lidgerwood Mfg. Co., 96 Liberty St., N. Y.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Mead-Morrison Mfg. Co., Cambridge, Mass.

Monighan Machine Co., 809-823 Carroll Ave., Chicago, Ill.

New York Cableway & Engineering Co., 2 Rector St., New York.

Northern Engineering Works, Detroit, Mich.

Reliance Mach. & Tool Works, St. Louis, Mo.

Shaw Co., Willis, 171 La Salle St., Chicago.

Traylor Engineering Co., 2 Rector St., N. Y.

Wilcox Co., W. H., Binghamton, N. Y.

Williamson Bros. Co., Aramingo Ave. and Cumberland St., Philadelphia, Pa.

Hooks (Wire Rope)

Leschen & Sons Rope Co., A., St. Louis, Mo.

Hose

Chicago House Wrecking Co., West 35th and Iron Sts., Chicago, Ill.

Mention the "Record" when writing.

Clow & Sons, James B., Chicago, Ill.
Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
Ingersoll-Rand Co., 11 B'way, New York.
International Electric & Engineering Co., 148
Chambers St., New York.
McKiernan Drill Co., 115 B'way, New York.
Perrin, Seamans & Co., 57 Oliver St., Boston.
U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.

Hose Attachments

Scully Steel & Iron Co., Chicago, Ill.

Hose (Steel Armor Protected)

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
International Electric & Engineering Co., 148
Chambers St., New York.
McCoy Co., Henry J., 65-67 Dey St., N. Y.

House Moving

Eichleay, Jr., Co., John, Pittsburg, Pa.

Hydrants

Chapman Valve Mfg. Co., Indian Orchard,
Mass.
Chicago House Wrecking Co., West 35th and
Iron Sts., Chicago, Ill.
Clow & Sons, James B., Chicago, Ill.
Coffin Valve Co., Boston, Mass.
Dean Bros. Steam Pump Works, Indianapo-
lis, Ind.
Douglas, W. & B., Middletown, Conn.
Flint & Walling Mfg. Co., Kendallville, Ind.
Fox & Co., John, 253 B'way, New York.
National Wood Pipe Co., 404 Equitable Bank
Bldg., Los Angeles, Cal.
Norwood Engineering Co., Florence, Mass.
Pittsburgh Mfg. Co., Pittsburgh, Pa.
Smith Mfg. Co., A. P., Passaic Ave., Newark,
N. J.
U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.
Wood & Co., R. D., 400 Chestnut St., Phila.

Hydraulic Leather Packings

Detroit Leather Specialty Co., Michigan and
Beecher Aves., Detroit, Mich.

Hydraulic Machinery

Allis-Chalmers Co., Milwaukee, Wis.
Bucyrus Co., The, So. Milwaukee, Wis.
Cleveland Crane & Car Co., Wickliffe, Ohio.
Dayton Hydraulic Machinery Co., Dayton, O.
Dean Bros. Steam Pump Works, Indianapo-
lis, Ind.
Douglas, W. & B., Middletown, Conn.
Emerson Steam Pump Co., The, Alexandria,
Va.
Erie Pump & Engine Co., Erie, Pa.
Lawrence Machine Co., Lawrence, Mass.
Smith Co., S. Morgan, York, Pa.

Mention the "Record" when writing.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Wetherill Bros. Machine Co., Chester, Pa.

Wood & Co., R. D., 400 Chestnut St., Phila.

Ice and Refrigerating Machinery

Dayton Hydraulic Machinery Co., Dayton, O.

Lombard Iron Works & Supply Co., Augusta, Ga.

Moore & Sons Corp., Sam'l L., Front and Franklin Sts., Elizabethport, N. J.

Incline Cableway Engines

Bacon, Earle C., Havemeyer Bldg., N. Y.

Broderick & Bascom Rope Co., St. Louis, Mo.

Lidgerwood Mfg. Co., 96 Liberty St., N. Y.

Mead-Morrison Mfg. Co., Cambridge, Mass.

New York Cableway & Engineering Co., 2 Rector St., New York.

Indicator Posts

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Induced Draft Equipment

American Blower Co., Detroit, Mich.

Information Service

Dodge Co., F. W., 11 E. 24th St., New York.

Injectors

American Injector Co., Congress & 7th Sts., Detroit, Mich.

Clow & Sons, James B., Chicago, Ill.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Hayden & Derby Mfg. Co., 85-89 Liberty St., New York.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

Lunkenheimer Co., Cincinnati, Ohio.

Manning, Maxwell & Moore, 85-89 Liberty St., New York.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Powell Co., Wm., Cincinnati, Ohio.

Inspection of Building Materials

Rodgers Company, The, Monadnock Block, Chicago, Ill.

Instruments (Electric Measuring)

General Electric Company, Schenectady, N. Y.

Instruments—Engineering, Surveying and Mathematical (See Engineers' and Surveyors' Supplies)

Ainsworth & Sons, Wm., Denver, Colo.

Hanna Mfg. Co., Troy, N. Y.

Lufkin Rule Co., Saginaw, Mich.

Seelig & Son R., 170 East Madison St., Chicago, Ill.

Technical Supply Co., 46 East 14th St., N. Y.

Williams, Brown & Earl, 918 Chestnut St., Philadelphia.

Mention the "Record" when writing,

Instruments (Mining)

Seelig & Son, R., 170 East Madison St., Chicago, Ill.

Insulating Materials

Standard Asphalt & Rubber Co., 944 First Nat'l Bank Bldg., Chicago, Ill.

Insurance

Brown, Jr., A. S., 85 Water St., Boston.
Contractors & Builders Insurance Agency,
"Inc.," American Nat'l Bank Bldg., Richmond, Va.

Ritch, William T., "Inc.," 1123 B'way, N. Y.

Iron and Steel

Scully Steel & Iron Co., Chicago, Ill.

Iron (Corrugated)

Bayer, J. C., Front & Market Sts., Portland, Ore.

Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.

Berger Mfg. Co., The, Canton, Ohio.

Boston Bridge Works, 47 Winter St., Boston.

Buffalo Steel Co., Towanda, N. Y.

Chicago House Wrecking Co., W. 35th & Iron Sts., Chicago, Ill.

Garry Iron & Steel Co., Cleveland, Ohio.

Inland Steel Co., First Nat'l Bank Bldg., Chicago, Ill.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Riverside Bridge Co., Martins Ferry, Ohio.

Scaife & Sons Co., Wm. B., Pittsburg, Pa.

Wemlinger Steel Piling Co., 11 B'way, N. Y.

Iron Fence and Railings

Anchor Post Iron Works, 147 Nassau St., N. Y.

Belmont Iron Works, 22d St., & Washington Ave., Philadelphia, Pa.

Boston Bridge Works, 47 Winter St., Boston.

Darby & Sons Co., "Inc.," Edw., Phila., Pa.

Douglas, Geo. B., 29 B'way, New York.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Sharon Boiler Works, Sharon, Pa.

Stewart Iron Works Co., The, Cincinnati, O.

Whitehead & Kales Iron Works, Detroit, Mich.

Iron (Sheet)

Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.

Berger Mfg. Co., The, Canton, Ohio.

Buffalo Steel Co., Towanda, N. Y.

Garry Iron & Steel Co., Cleveland, Ohio.

Inland Steel Co., First Nat'l Bank Bldg., Chicago, Ill.

Kenwood Bridge Co., 1416 First Nat'l Bank Bldg., Chicago, Ill.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Ironwork (Architectural)

Anchor Post Iron Works, 147 Nassau St., N. Y.

Mention the "Record" when writing.

Bellefontaine Bridge & Steel Co., Bellefontaine,
 Ohio.
 Belmont Iron Works, 22d St. & Washington
 Ave., Philadelphia, Pa.
 Berlin Construction Co., Berlin, Conn.
 Brooks & Co., T. H., Cleveland, Ohio.
 Cleveland City Forge & Iron Co., Cleveland, O.
 Darby & Sons Co., "Inc.," Edw., Phila., Pa.
 Decatur Bridge Co., Decatur, Ill.
 Douglas, Geo. B., 29 B'way, New York.
 Insley Iron Works, Indianapolis, Ind.
 Kenwood Bridge Co., 1416 First Nat'l Bank
 Bldg., Chicago, Ill.
 Lombard Iron W'ks & Supply Co., Augusta, Ga.
 Mesker & Bro., 421 So. 6th St., St. Louis, Mo.
 Mullins Co., W. H., 342 Franklin St., Salem, O.
 Noelke-Richards Iron Works, Indianapolis, Ind.
 Schreiber & Sons Co., L., Cincinnati, Ohio.
 Sharon Boiler Works, Sharon, Pa.
 Stewart Iron Works Co., The, Cincinnati, O.
 Whitehead & Kales Iron Works, Detroit, Mich.

Irrigation

Austin Drainage Excavator Co., F. C., Rail-
 way Exchange, Chicago, Ill.

Irrigation Supplies

National Wood Pipe Co., 404 Equitable Bank
 Bldg., Los Angeles, Cal.

Jacks

Dudgeon, Richard, Broome & Columbia Sts.,
 New York.

Jacks (Bridge)

Chicago House Wrecking Co., West 35th &
 Iron Sts., Chicago, Ill.
 Duff Mfg. Co., The, Pittsburg, Pa.
 Patterson Co., W. W., Pittsburg, Pa.

Jacks (Hydraulic)

Chicago House Wrecking Co., West 35th &
 Iron Sts., Chicago, Ill.
 Kalamazoo Railway Supply Co., Kalamazoo,
 Mich.
 Lombard Iron W'ks & Supply Co., Augusta, Ga.
 Watson-Stillman Co., The, 26 Cortl'dt St., N.Y.

Jacks (Jenne Friction)

Kalamazoo Railway Supply Co., Kalamazoo,
 Mich.

Jacks (Kalamazoo Ratchet)

Kalamazoo Railway Supply Co., Kalamazoo,
 Mich.

Jacks (Pneumatic)

Chicago House Wrecking Co., West 35th &
 Iron Sts., Chicago, Ill.
 Independent Pneumatic Tool Co., Chicago and
 New York.
 Watson-Stillman Co., The, 26 Cortl'dt St., N.Y.

Mention the "Record" when writing.

Jacks (Screw)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Scully Steel & Iron Co., Chicago, Ill.

Jacks (Track)

Duff Mfg. Co. The, Pittsburg, Pa.

Joints (Expansion)

American Spiral Pipe Works, 14th St., & 48th Ave., Chicago, Ill.

Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.

Coffin Valve Co., Boston, Mass.

Coldwell-Wilcox Co., Newburgh, N. Y.

Power Specialty Co., 111 B'way, New York.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Joints (Expansion, Copper)

Badger & Sons Co., E. B., 63-75 Pitt St., Boston, Mass.

Joints (Flexible)

American Spiral Pipe Works, 14th St. & 48th Ave., Chicago, Ill.

Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.

Coldwell-Wilcox Co., Newburgh, N. Y.

Ingersoll-Rand Co., 11 B'way, New York.

Walker Mfg. Co., Fenton, Mich.

Kettles (Melting)

Graver Tank Works, Wm., East Chicago, Ind.

Kettles (Steam Jacket, Copper)

Badger & Sons Co., E. B., 63-75 Pitts St., Boston, Mass.

Kilns

Allis-Chalmers Co., Milwaukee, Wis.

East Jersey Pipe Co., 90 West St., N. Y.

Fuller Engineering Co., Allentown Nat'l Bank Bldg., Allentown, Pa.

Green Fuel Economizer Co., Matteawan, N. Y.

Power & Mining Machinery Co., Cudahy, Wis.

Smidth & Co., F. L., 39-41 Cortl'dt St., N. Y.

Sturtevant Co., B. F., Hyde Park, Mass.

Traylor Engineering Co., 2 Rector St., N. Y.

Trussed Concrete Steel Co., Detroit, Mich.

Kilns (Cement)

Graver Tank Works, Wm., East Chicago, Ind.

Riter-Conley Mfg., Co., Pittsburgh, Pa.

Kilns (Drying)

Graver Tank Works, Wm., East Chicago, Ind.

Kilns (Lime)

Graver Tank Works, Wm., East Chicago, Ind.

Kominuters

Smidth & Co., F. L., 39-41 Cortlandt St., N. Y.

Ladles (Foundry)

Clow & Sons, James B., Chicago, Ill.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

Mention the "Record" when writing.

McNeil & Bro. Co., James, Pittsburg, Pa.
Petroleum Iron Works Co., The, Sharon, Pa.
Pittsburgh Mfg. Co., Pittsburgh, Pa.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Sharon Boiler Works, Sharon, Pa.

Ladles (Foundry Cars)

Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.
Union Iron Works, The, Hoboken, N. J.

Ladles (Steel)

Petroleum Iron Works Co., The, Sharon, Pa.

Lamp Posts

Belmont Iron Works, 22d St. & Washington
Ave., Philadelphia, Pa.
Clow & Sons, James B., Chicago, Ill.
Donaldson Iron Co., Emaus, Lehigh County,
Pa.
Schreiber & Sons Co., L., Cincinnati, Ohio.

Lamps (Arc and Incandescent)

General Electric Company, Schenectady, N. Y.
International Electric & Engineering Co., 148
Chambers St., New York.
Johns-Manville Co., H. W., 100 Wm. St., N.Y.
Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.
Youngstown Car Mfg. Co., Youngstown, Ohio.

Land Reclamation

Austin Drainage Excavator Co., F. C., Rail-
way Exchange, Chicago, Ill.

Lath (Metal)

Associated Expanded Metal Cos., 221 Fifth
Ave., New York.
Berger Mfg. Co., The, Canton, Ohio.
Calumet Steel Co., Commercial Nat'l Bank
Bldg., Chicago, Ill.
Garry Iron & Steel Co., Cleveland, Ohio.
General Fireproofing Co., The, Youngstown, O.
Manning, Maxwell & Moore, 85-89 Liberty St.,
New York.
Northwestern Expanded Metal Co., Old Colony
Bldg., Chicago, Ill.
Roebbling Construction Co., Fuller Bldg., B'way
& 23d St., New York.

Leadite

Leadite Co. of America, The, 1215 Filbert St.,
Philadelphia, Pa.

Lead Wool

New York Lead Wool Co., 93 Nassau St., N.Y.
United Lead Co., 100 William St., New York.

Letter Boxes

International Electric & Engineering Co., 148
Chambers St., New York.

Levels

Ainsworth & Sons, Wm., Denver, Colo.
Architects & Engineers Supply Co., 1010 Grand
Ave., Kansas City, Mo.

Mention the "Record" when writing.

Seelig & Son, R., 170 East Madison St., Chicago, Ill.

Levels (Track)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Lift Bridges

Scherzer Rolling Lift Bridge Co., 1616 Monadnock Block, Chicago, Ill.

Lighthouse Foundation

Jackson, George W., "Inc.," 169-179 West Jackson Boulevard, Chicago, Ill.

Lights (Contractors')

Kitzen Hydro-Carbon Heating & Incandescent Lighting Co., 1230 Callowhill St., Phila.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Wells Light Mfg., Co., The, 14 Church St., New York.

Lights, Sidewalks and Vault (See Skylights)

Aberthaw Construction Co., 8 Beacon St., Boston, Mass.

Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.

Berger Mfg. Co., The, Canton, Ohio.

Brooks & Co., T. H., Cleveland, Ohio.

Schreiber & Sons Co., L., Cincinnati, Ohio.

Lime

Warner Co., Charles, Wilmington, Del.

Lime (Hydrated)

Warner Co., Charles, Wilmington, Del.

Lock Boxes (Meter)

Buffalo Meter Co., 290-296 Terrace, Buffalo, N.Y.

Lockers

Berger Mfg. Co., The, Canton, Ohio.

Darby & Sons Co., "Inc.," Edw., Phila., Pa.

General Fireproofing Co., The, Youngstown, O.

Merritt & Co., 1015 Ridge Ave., Phila., Pa.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Locomotives (Compressed Air)

Davenport Locomotive Works, Davenport, Ia.

Porter Co., H. K., Union Bank Bldg., Pittsburgh, Pa.

Wonham-Magor Engineering Works, 29 B'way, New York.

Locomotives (Dinkey)

American Locomotive Co., 111 B'way, N. Y.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Davenport Locomotive Works, Davenport, Ia.

Porter Co., H. K., Union Bank Bldg., Pittsburgh, Pa.

Shaw Co., Willis, 171 La Salle St., Chicago, Ill.

Vulcan Iron Works, Wilkes-Barre, Pa.

Wiener Company, Ernst, 168 Morris Bldg. N.Y.

Mention the "Record" when writing.

Wonham-Magor Engineering Works, 29 B'way,
New York.

Locomotives (Electric)

American Locomotive Co., 111 B'way, N. Y.
Davenport Locomotive Works, Davenport, Ia.
General Electric Company, Schenectady, N.Y.
Northern Engineering Works, Detroit, Mich.

Locomotives (Electric and Battery)

Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.

Locomotives (Electric Mining)

General Electric Company, Schenectady, N.Y.

Locomotives (Gasoline)

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Locomotives (Industrial and Light)

American Locomotive Co., 111 B'way, N. Y.
Chandler, Geo. M., 42-9 North Illinois St.,
Indianapolis, Ind.

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Davenport Locomotive Works, Davenport, Ia.
Hough Co., William B., 1336-7 Monadnock
Block, Chicago, Ill.

McCoy Co., Henry J., 65-67 Dey St., N. Y.
Mead-Morrison Mfg. Co., Cambridge, Mass.
Porter Co., H. K., Union Bank Bldg., Pitts-
burg, Pa.

Vulcan Iron Works, Wilkes-Barre, Pa.
Wiener Company, Ernst, 168 Morris Bldg., N.Y.
Wonham-Magor Engineering Works, 29 B'way,
New York.

Locomotives (Steam)

American Locomotive Co., 111 B'way, N. Y.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Davenport Locomotive Works, Davenport, Ia.
Porter Co., H. K., Union Bank Bldg., Pitts-
burg, Pa.

Shaw Co., Willis, 171 La Salle St., Chicago, Ill.
Vulcan Iron Works, Wilkes-Barre, Pa.

Wonham-Magor Engineering Works, 29 B'way,
New York.

Locomotives (Traction)

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Monarch Road Roller Co., Groton, Tompkins
Co., New York.

Vulcan Iron Works, Wilkes-Barre, Pa.

Logging Outfits

Broderick & Bascom Rope Co., St. Louis, Mo.
Brown Hoisting Machinery Co., The, 4403 St.
Clair Ave., Cleveland, Ohio.

Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.

Leschen & Sons Rope Co., A., St. Louis, Mo.
Lombard Iron W'ks & Supply Co., Augusta, Ga.

Mention the "Record" when writing.

Mead-Morrison Mfg. Co., Cambridge, Mass.
Monighan Machine Co., 809-823 Carroll Ave.,
Chicago, Ill.
Watson-Stillman Co., The, 26 Cortl'dt St., N.Y.
Wiener Company, Ernst, 168 Morris Bldg., N.Y.
Youngstown Car Mfg. Co., Youngstown, O.

Log Loaders

Marion Steam Shovel Co., The, 640 W. Center
St., Marion, Ohio.

Lubricants

Dixons Crucible Co., Joseph, Jersey City, N. J.

Lubricators

American Injector Co., Congress and 7th Sts.,
Detroit, Mich.

Clow & Sons, James B., Chicago, Ill.

Lunkenheimer Co., Cincinnati, Ohio.

Powell Co., Wm., Cincinnati, Ohio.

Lumber (Creosoted)

American District Steam Co., Lockport, N. Y.

Barber Asphalt Paving Co., Maurer, N. J.

Grosche & Co., Bruno, 23 Jones Lane, N. Y.

Gulfport Creosoting Co., Gulfport, Miss.

Machine Tools

International Electric & Engineering Co., 148
Chambers St., New York.

Pels & Co., Henry, 66-68 Broad St., New York.

Scully Steel & Iron Co., Chicago, Ill.

Machinery and Appliances (Grain Elevators)

Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

Machinery Merchants

Chandler, Geo. M., 42-9 N. Illinois St., In-
dianapolis, Ind.

Machinery (Power Transmitting)

Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

Machinery (Rope Transmitting)

Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

Machinery, Second-Hand (See Sec- ond-Hand Supplies)

Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.

Chandler, Geo. M., 42-9 N. Illinois St., In-
dianapolis, Ind.

Chicago House Wrecking Co., West 35th and
Iron Sts., Chicago, Ill.

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Lombard Iron Works & Supply Co., Augusta,
Ga.

Shaw Co., Willis, 171 La Salle St., Chicago.

Mention the "Record" when writing.

Machinists

Monighan Machine Co., 809-823 Carroll Ave., Chicago, Ill.
Moore & Sons Corp., Sam'l L., Front and Franklin Sts., Elizabethport, N. J.
Lawrence Machine Co., Lawrence, Mass.
Pittsburgh Mfg. Co., Pittsburgh, Pa.
Valley Iron Works, Williamsport, Pa.
Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.
Wetherill Bros. Machine Co., Chester, Pa.
Whitehead & Kales Iron Works, Detroit, Mich.

Machinist and Founders

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Manganese Steel

Pennsylvania Steel Co., The, Philadelphia, Pa.

Manhole Covers

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.
Clow & Sons, James B., Chicago, Ill.
Dake Engine Co., Grand Haven, Mich.
Dobbie Foundry & Mach. Co., Niagara Falls, N. Y.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
Pittsburgh Mfg. Co., Pittsburgh, Pa.
Raquette Foundry & Supply Co., Massena, N. Y.
U. S. Cast Iron Pipe & Foundry Co., 71 B'way, New York.
Valley Iron Works, Williamsport, Pa.
Youngstown Car Mfg. Co., Youngstown, Ohio.

Marble (Workers' and Dealers')

Clow & Sons, James B., Chicago, Ill.

Mauls

Scully Steel & Iron Co., Chicago, Ill.

Mechanical Draft Plants

American Blower Co., Detroit, Mich.
Green Fuel Economizer Co., Matteawan, N. Y.
New York Blower Co., Chicago, Ill.
Sturtevant Co., B. F., Hyde Park, Mass.

Metallic Window Frame and Sash

Bayer, J. C., Front and Market Sts., Portland, Ore.
Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.
Berger Mfg. Co., The, Canton, Ohio.
General Fireproofing Co., The, Youngstown, O.
Irwin Mfg. Co., Thos. W., Rebecca and Craig Sts., North Side, Pittsburg, Pa.
Mesker & Bro., 421 So. 6th St., St. Louis, Mo.
Mullins Co., W. H., 342 Franklin St., Salem, O.
Van Noorden Co., E., 950 Mass. Ave., Boston.

Metals (Reinforcing)

Associated Expanded Metal Cos., 221 Fifth Ave., New York.

Mention the "Record" when writing.

Buffalo Steel Co., Towanda, N. Y.
 Calumet Steel Co., Commercial Nat'l Bank
 Bldg., Chicago, Ill.
 Clinton Wire Cloth Co., Clinton, Mass.
 Concrete-Steel Engineering Co., Park Row
 Bldg., New York.
 Douglas, Geo. B., 29 B'way, New York.
 General Fireproofing Co., The, Youngstown, O.
 Goff-Horner & Co., "Ltd.," Frick Bldg., Pitts-
 burg, Pa.
 Hough Co., William B., 1336-7 Monadnock
 Block, Chicago, Ill.
 Inland Steel Co., First National Bank Bldg.,
 Chicago, Ill.
 Lupton's Sons Co., David, Philadelphia, Pa.
 Northwestern Expanded Metal Co., Old Col-
 ony Bldg., Chicago, Ill.
 Portland Iron & Steel Co., Board of Trade
 Bldg., Boston, Mass.
 Rodgers Co., The, Monadnock Block, Chicago.
 Rogers-Shear Co., The, Warren, Pa.
 Trussed Concrete Steel Co., Detroit, Mich.

Metal Shingles and Tile

Bayer, J. C., Front and Market Sts., Portland,
 Ore.

Meter Box Covers

Lynchburg Foundry Co., Lynchburg, Va.
 McWane Pipe Works, 220 B'way, New York.

Meter Provers

Pittsburgh Meter Co., East Pittsburgh, Pa.
 Seelig & Son, R., 170 E. Madison St., Chicago.

Meters (Air)

Pittsburgh Meter Co., East Pittsburgh, Pa.

Meters (Feed-Water)

Pittsburgh Meter Co., East Pittsburgh, Pa.

Meters (Gas)

Pittsburgh Meter Co., East Pittsburgh, Pa.

Meters (Hot-Water)

Pittsburgh Meter Co., East Pittsburgh, Pa.

Meters (Portable)

Pittsburgh Meter Co., East Pittsburgh, Pa.

Meters (Sprinkling Cart)

Pittsburgh Meter Co., East Pittsburgh, Pa.

Meters (Steam)

American District Steam Co., Lockport, N. Y.

Meters (Water and Oil)

Buffalo Meter Co., 290-296 Terrace, Buffalo,
 N. Y.

Builders Iron Foundry, 9 Coddington St., Provi-
 dence, R. I.

Chicago House Wrecking Co., West 35th and
 Iron Sts., Chicago, Ill.

National Meter Co., 84 Chambers St., N. Y.

Neptune Meter Co., 90 West St., New York.

Pittsburgh Meter Co., East Pittsburgh, Pa.

Mention the "Record" when writing.

Simplex Valve & Meter Co., 112 N. Broad St., Philadelphia, Pa.

Thomson Meter Co., 79 Washington St., Brooklyn, N. Y.

Mill Motors (Alternating and Direct-Current)

General Electric Co., Schenectady, N. Y.

Mills (Sugar)

Baltimore Bridge Co., Bush St. and B. & O. R.R., Baltimore, Md.

Mining Machinery

Allis-Chalmers Co., Milwaukee, Wis.

American Test Boring & Drilling Co., 32 B'way, New York.

Atlas Dryer Co., The, Cleveland, Ohio.

Bacon, Earle Co., Havemeyer Bldg., N. Y.

Bucyrus Co., The, So. Milwaukee, Wis.

Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.

Ingersoll-Rand Co., 11 B'way, New York.

Kent Mill Co., 170 B'way, New York.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Marion Steam Shovel Co., The, 640 W. Center St., Marion, Ohio.

Mead-Morrison Mfg. Co., Cambridge, Mass.

Morris & Co., I. P., Philadelphia, Pa.

Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.

Power & Mining Machinery Co., Cudahy, Wis.

Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.

Scully Steel & Iron Co., Chicago, Ill.

Smidth & Co., F. L., 41 Cortlandt St., N. Y.

Sturtevant Mill Co., Harrison Sq., Boston.

Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.

Wisconsin Engine Co., Corliss, Wis.

Mining Machinery (Cars)

Shaw Co., Willis, 171 La Salle St., Chicago.

Youngstown Car Mfg. Co., Youngstown, O.

Mining Shafts

Foundation Co., The, 115 B'way, New York.

Mixers (Asphalt)

Erie Machine Shops, Erie, Pa.

Mixers (Cement)

Municipal Engineer's & Contracting Co., Jackson Boulevard and Mich. Ave., Chicago.

Mixers (Cement, Asphalt and Mortar)

Ashland Steel Range & Mfg. Co., Ashland, O.

Chain Belt Co., Milwaukee, Wis.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Eureka Machine Co., Lansing, Mich.

Foote Concrete Machinery Co., 184 La Salle St., Chicago, Ill.

Mention the "Record" when writing.

Hough Co., William D., 1336-7 Monadnock
Block, Chicago, Ill.
Koehring Machine Co., Milwaukee, Wis.
Power & Mining Machinery Co., Cudahy, Wis.
Ransome Concrete Machinery Co., Dunellen,
N. J.
Standard Sand & Machine Co., Cleveland, O.
Svenson-Shuman Machine Co., 602 Bessemer
Bldg., Pittsburg, Pa.
Wilcox Co., W. H., Binghamton, N. Y.
Youngstown Car Mfg. Co., Youngstown, O.

Mixers (Concrete)

Scully Steel & Iron Co., Chicago, Ill.

Mixers (Mortar)

Buffalo Concrete Mixer Co., The, 12 Builders'
Exchange, Buffalo, N. Y.

Mixing Machinery

Standard Sand & Machine Co., Cleveland, O.

Mortar Colors

Garry Iron & Steel Co., Cleveland, Ohio.
Warner Co., Charles, Wilmington, Del.

Motor Cars

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Motors (Compressed Air)

Dake Engine Co., Grand Haven, Mich.
Independent Pneumatic Tool Co., Chicago and
New York.
Ingersoll-Rand Co., 11 B'way, New York.
Northern Engineering Works, Detroit, Mich.

Motors (Electric)

Allis-Chalmers Co., Milwaukee, Wis.
Burke Electric Co., Erie, Pa.
C. & C. Electric Co., The, Garwood, N. J.
Chandler, Geo. M., 42-9 N. Illinois St., In-
dianapolis, Ind.
D'Olier Engineering Co., 121 South 11th St.,
Philadelphia, Pa.
General Electric Co., Schenectady, N. Y.
International Electric & Engineering Co., 148
Chambers St., New York.
Mietz, August, 128-138 Mott St., New York.
Moore & Sons Corp., Sam'l L., Front and
Franklin Sts., Elizabethport, N. J.
Northern Engineering Works, Detroit, Mich.
Ridgway Dynamo & Engine Co., Ridgway, Pa.
Sturtevant Co., B. F., Hyde Park, Mass.
Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.

Motors (Water and Steam)

Dake Engine Co., Grand Haven, Mich.

Municipal Hand Carts

Studebaker Bros. Mfg. Co., South Bend, Ind.

Nails (Wire)

American Steel & Wire Co., Commercial Nat'l
Bank Bldg., Chicago.

Mention the "Record" when writing.

Netting (Wire)

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Nickel Steel

Pennsylvania Steel Co., The, Phila., Pa.
Prosser & Sons, Thos. ("Krupp"), 15 Gold St., New York.

Nuts and Nut Locks

Lombard Iron Works & Supply Co., Augusta, Ga.

Pittsburgh Mfg. Co., Pittsburgh, Pa.

Oakum

American Mfg. Co., 65 Wall St., New York.

Leschen & Sons Rope Co., A., St. Louis, Mo.

Office Supplies

Architects & Engineers Supply Co., 1010 Grand Ave., Kansas City, Mo.

Oil Burners (Gem)

Petroleum Iron Works Co., The, Sharon, Pa.

Oil Filters

Burt Mfg. Co., Akron, Ohio.

Clow & Sons, James B., Chicago, Ill.

Oil Refining Plants

Petroleum Iron Works Co., The, Sharon, Pa.

Oilers

Powell Co., William, Cincinnati, Ohio.

Oiling Systems

Burt Mfg. Co., Akron, Ohio.

Optical Goods

Architects & Engineers Supply Co., 1010 Grand Ave., Kansas City, Mo.

Packing

Broderick & Bascom Rope Co., St. Louis, Mo.

Clow & Sons, James B., Chicago, Ill.

Johns-Manville Co., H. W., 100 Wm. St., N. Y.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Packing (Leather)

Detroit Leather Specialty Co., Michigan and Beecher Aves., Detroit, Mich.

Packing (Metallic)

Power Specialty Co., 111 B'way, New York.

Packing (Water-Pipe)

American Mfg. Co., 65 Wall St., New York.

Paints and Metal Coatings

American Asphaltum & Rubber Co., Woman's Temple, Chicago, Ill.

Carbolineum Wood Preserving Co., 60 Wall St., New York.

Dixons Crucible Co., Joseph, Jersey City, N. J.

Elaterite Paint & Mfg. Co., Des Moines, Ia.

Grosche & Co., Bruno, 23 Jones Lane, N. Y.

Mention the "Record" when writing.

Hammond-Boynton Paint & Chemical Co.,
Norwich, Conn.
Lino Paint Co., The, Collinwood, Ohio.
Lombard Iron Works & Supply Co., Augusta,
Ga.
McKinney Co., C. S., 60 Wall St., New York.
Rinald Bros., 1142-1146 No. Hancock St., Phil-
adelphia, Pa.
Standard Asphalt & Rubber Co., 944 First Nat'l
Bank Bldg., Chicago, Ill.
Wadsworth, Howland & Co., Inc., 84 Washing-
ton St., Boston, Mass.

Paper (Drafting)

Mittineague Paper Co., Mittineague, Mass.

Paper (Drawing)

Mittineague Paper Co., Mittineague, Mass.

Paper (Writing)

Mittineague Paper Co., Mittineague, Mass.

Paving Materials

American Asphaltum & Rubber Co., Woman's
Temple, Chicago, Ill.
American Creosoting Co., 29 B'way, N. Y.
McAvoy Vitrified Brick Co., 345 Arch St.,
Philadelphia, Pa.
Metropolitan Paving Brick Co., Canton, O.
Patton Clay Mfg. Co., Patton, Pa.
Standard Asphalt & Rubber Co., 944 First
Nat'l Bank Bldg., Chicago, Ill.
Steel Protected Concrete Co., Phila., Pa.
Trussed Concrete Steel Co., Detroit, Mich.
Warner Co., Charles, Wilmington, Del.

Penstocks

Graver Tank Works, East Chicago, Ind.

Perforated Metals

Allis-Chalmers Co., Milwaukee, Wis.
Power & Mining Machinery Co., Cudahy, Wis.
Webster Mfg. Co., 1075 W. 15th St., Chicago,
Ill.; 88-90 Reade St., New York.

Pile-Driving Machinery

American Hoist & Derrick Co., St. Paul, Minn.
Bucyrus Co., The, South Milwaukee, Wis.
Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.
Contractors Plant Mfg. Co., Buffalo, N. Y.
Chandler, Geo. M., 42-9 North Illinois St., In-
dianapolis, Ind.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Dobbie Foundry & Machine Co., Niagara Falls.
N. Y.
Edson Manufacturing Co., 255-257 Atlantic
Ave., Boston, Mass.
Ingersoll-Rand Co., 11 B'way, New York.
Leschen & Sons Rope Co., A., St. Louis, Mo.
Lidgerwood Mfg. Co., 96 Liberty St., N. Y.
Lombard Iron W'ks & Supply Co., Augusta, Ga.

** Mention the "Record" when writing.*

McKiernan Drill Co., 115 B'way, N. Y.
Mead-Morrison Mfg. Co., Cambridge, Mass.
Monighan Machine Co., 809-823 Carroll Ave.,
Chicago, Ill.
Reliance Machine & Tool Works, St. Louis, Mo.
Scully Foundation & Transportation Co., John
T., 85 First St., Cambridge, Mass.
Shaw Co., Willis, 171 La Salle St., Chicago, Ill.
Union Iron Works, The, Hoboken, N. J.

Pile Protection

Lock Joint Pipe Co., 346 B'way, New York.

Pile Shoes

Dobbie Foundry & Machine Co., Niagara Falls,
N. Y.
Janney, Steinmetz & Co., Phila., Pa.
Patterson Co., W. W., Pittsburg, Pa.
Perrin, Seamans & Co., 57 Oliver St., Boston.

Piles (Concrete)

Chenoweth, A. C., 16 Court St., Brooklyn, N.Y.
Foundation Co., The, 115 B'way, New York.
Goff-Horner & Co., "Ltd.," Frick Bldg., Pitts-
burg, Pa.
Hennebique Construction Co., 1170 B'way, N.Y.
Maxwell Concrete Steel Co., 516 Penobscot
Bldg., Detroit, Mich.
Raymond Concrete Pile Co., 135 Adams St.,
Chicago, Ill.
Simplex Concrete Piling Co., 3400 Disston St.,
Tacony, Philadelphia, Pa.

Piles (Creosoted)

Barber Asphalt Paving Co., Maurer, N. J.
Gulfport Creosoting Co., Gulfport, Miss.
Valley Iron Works, Williamsport, Pa.

Piles (Reinforced Sheet)

Chenoweth, A. C., 16 Court St., Brooklyn, N.Y.

Piles (Spruce)

Scully Foundation & Transportation Co., John
T., 84 First St., Cambridge, Mass.

Piles (Steel Sheeting)

Foundation Co., The, 115 B'way, New York.

Piles (Wooden)

Foundation Co., The, 115 B'way, New York.

Piling (Concrete)

Foundation C., The, 115 B'way, New York.

Piling (Interlocking)

Jackson, George W., "Inc.," 169-179 W. Jackson
Boulevard, Chicago, Ill.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
National Interlocking Steel Sheeting Co., Chi-
cago, Ill.
Ransome Concrete Machinery Co., Dunellen,
N. J.
Wemlinger Steel Piling Co., 11 B'way, N. Y.
Wittekind, Henry, 4730 North Clark St., Chi-
cago, Ill.

Mention the "Record" when writing.

Piling (Sheet)

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
National Interlocking Steel Sheeting Co., Chicago, Ill.
Scully Foundation & Transportation Co., John T., 84 First St., Cambridge, Mass.
Wemlinger Steel Piling Co., 11 B'way, N. Y.
Wittekind, Henry, 4730 North Clark St., Chicago, Ill.

Piling (Sheet—Reinforced Concrete)

Chenoweth, A. C., 16 Court St., Brooklyn, N. Y.

Piling (Sheet Steel)

Foundation Co., The, 115 B'way, New York.
Jackson, George W., "Inc.," 169-179 West Jackson Boulevard, Chicago, Ill.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
National Interlocking Steel Sheeting Co., Chicago, Ill.
Ransome Concrete Machinery Co., Dunellen, N. J.
Wemlinger Steel Piling Co., 11 Broadway, N. Y.
Wittekind, Henry, 4730 North Clark St., Chicago, Ill.

Piling (Wooden)

Foundation Co., The, 115 B'way, New York.

Pipe and Boiler Coverings

Clow & Sons, James B., Chicago, Ill.
Johns-Manville Co., H. W., 100 William St., New York.
Lombard Iron W'ks & Supply Co., Augusta, Ga.
Michigan Pipe Co., The, Bay City, Mich.

Pipe-Bending Machines

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Pipe Bends

Kellogg Co., M. W., 143 Liberty St., N. Y.

Pipe (Brine Circulation)

American Spiral Pipe Works, 14th St. & 48th Ave., Chicago, Ill.

Pipe (Cast-Iron)

American Cast-Iron Pipe Co., Birmingham, Ala.
Clow & Sons, James B., Chicago, Ill.
Dimmick Pipe Co., Birmingham, Ala.
Donaldson Iron Co., Emaus, Lehigh Co., Pa.
Indiana Road Machine Co., Fort Wayne, Ind.
Kellogg Co., M. W., 143 Liberty St., N. Y.
Lynchburg Foundry Co., Lynchburg, Va.
McWane Pipe Works, 220 B'way, New York.
U. S. Cast-Iron Pipe & Foundry Co., 71 B'way, New York.
U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.
Wood & Co., R. D., 400 Chestnut St., Philadelphia, Pa.

Mention the "Record" when writing.

Pipe (Cast-Iron for Water or Gas)

American Pipe Mfg. Co., The, 112 North Broad St., Philadelphia, Pa.
Donaldson Iron Co., Emaus, Lehigh County, Pa.
Fox & Co., John, 253 B'way, New York.
Gillespie Co., T. A., Westinghouse Bldg., Pittsburgh, Pa.
Massillon Iron & Steel Co., Massillon, Ohio.

Pipe Cutters

American District Steam Co., Lockport, N. Y.
Clow & Sons, James B., Chicago, Ill.
Smith Mfg. Co., A. P., Passaic Ave., Newark, N. J.
U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Pipe Cutting and Threading Machines

Scully Steel & Iron Co., Chicago, Ill.

Pipe Dip

American Asphaltum & Rubber Co., Woman's Temple, Chicago, Ill.
Hydrex Felt & Engineering Co., 120 Liberty St., New York.
Standard Asphalt & Rubber Co., 944 First Nat'l Bank Bldg., Chicago, Ill.

Pipe Fittings

American Cast-Iron Pipe Co., Birmingham, Ala.
American District Steam Co., Lockport, N. Y.
American Spiral Pipe Works, 14th St. & 48th Ave., Chicago, Ill.
Builders Iron Foundry, 9 Coddling St., Providence, R. I.
Clow & Sons, James B., Chicago, Ill.
Donaldson Iron Co., Emaus, Lehigh Co., Pa.
Kellogg Co., M. W., 143 Liberty St., N. Y.
Massillon Iron & Steel Co., Massillon, Ohio.
National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.
U. S. Cast Iron Pipe & Foundry Co., 71 B'way, New York.
U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.
Watson-Stillman Co., The, 26 Cortlandt St., New York.
Wood & Co., R. D., 400 Chestnut St., Philadelphia, Pa.

Pipe (Galvanized Iron Air)

New York Blower Co., Chicago, Ill.

Pipe Intake

American Spiral Pipe Works, 14th St. & 48th Ave., Chicago, Ill.
Michigan Pipe Co., Bay City, Mich.

Pipe-Joint Compounds

Dixons Crucible Co., Joseph, Jersey City, N. J.

Mention the "Record" when writing.

Pipe Joints

American Spiral Pipe Works, 14th St. & 48th Ave., Chicago, Ill.

Leadite Co. of America, 1215 Filbert St., Phila.

United Lead Co., 100 William St., New York.

Pipe (Lead)

Clow & Sons, James B., Chicago, Ill.

Pipe-Line Supplies

American District Steam Co., Lockport, N. Y.

American Spiral Pipe Works, 14th St. & 48th Ave., Chicago, Ill.

Union Iron Works, The, Hoboken, N. J.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ills.

Pipe (Lock-Bar)

East Jersey Pipe Co., 90 West St., New York.

Pipe (Penstock-Steel)

Struthers-Wells Co., Warren, Pa.

Pipe (Reinforced Concrete)

Maxwell Concrete Steel Co., 516 Penobscot Bldg., Detroit, Mich.

Rodgers Company, The, Monadnock Block, Chicago, Ill.

Pipe (Riveted Steel)

American Spiral Pipe Works, 14th St. & 48th Ave., Chicago, Ill.

Bellefontaine Bridge & Steel Co., Bellefontaine, Ohio.

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.

Clinton Bridge & Iron Works, Clinton, Ia.

Decatur Bridge Co., Decatur, Ill.

Douglas, Geo. B., 29 B'way, New York.

East Jersey Pipe Co., 90 West St., New York.

Gillespie Co., T. A., Westinghouse Bldg., Pittsburgh, Pa.

Graver Tank Works, Wm., East Chicago, Ind.

McNeil & Bro. Co., James, Pittsburgh, Pa.

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Petroleum Iron Works Co., The, Sharon, Pa.

Riter-Conley Mfg. Co., Pittsburgh, Pa.

Scaife & Sons Co., Wm. B., Pittsburgh, Pa.

Sharon Boiler Works, Sharon, Pa.

Struthers-Wells Co., Warren, Pa.

Tippett & Wood, Phillipsburg, N. J.

Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.

Pipe (Steel)

Scully Steel & Iron Co., Chicago, Ill.

Pipe (Vitrified Clay and Sewer)

National Fire Proofing Co., 115 Adams St., Chicago, Ill.

N. Y. State Sewer Pipe Co., Rochester, N. Y.

Patton Clay Mfg., Co., Patton, Pa.

Mention the "Record" when writing.

Robinson Clay Product Co. of N. Y., Flatiron Bldg., New York.

Warner Co., Charles, Wilmington, Del.

Pipe (Welded)

Riter-Conley Mfg. Co., Pittsburg, Pa.

Pipe (Wooden)

American District Steam Co., Lockport, N. Y.
Excelsior Wooden Pipe Co., St. Paul Bldg., New York.

Janney, Steinmetz & Co., Philadelphia, Pa.

Michigan Pipe Co., Bay City, Mich.

National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Wyckoff Wood Pipe Co., Elmira, N. Y.

Pipe (Wrought-Iron)

American District Steam Co., Lockport, N. Y.

Clow & Sons, James B., Chicago, Ill.

Douglas, Geo. B., 29 B'way, New York.

Fox & Co., John, 253 B'way, New York.

Kellogg Co., M. W., 143 Liberty St., N. Y.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Piping

Pope, Wm. A., 80 Lake St., Chicago, Ill.

Plaster (Calcined)

Warner Co., Charles, Wilmington, Del.

Plaster (Hard Wall)

Warner Co., Charles, Wilmington, Del.

Plates (Steel)

Douglas, Geo. B., 29 B'way, New York.

Scully Steel & Iron Co., Chicago, Ill.

Pliers (Wire-Cutting)

Wiebusch & Hilger, "Ltd.," 9 Murray St., New York.

Plows (Contractors')

Broderick & Bascom Rope Co., St. Louis, Mo.

Climax Road Machine Co., Marathon, N. Y.

Contractors Plant Mfg. Co., Buffalo, N. Y.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Dobbie Foundry & Machine Co., Niagara Falls, N. Y.

Indiana Road Machine Co., Fort Wayne, Ind.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Shaw Co., Willis, 171 La Salle St., Chicago.

Plumbers' Materials, Sanitary Specialties, Etc.

American District Steam Co., Lockport, N. Y.

Clow & Sons, James B., Chicago, Ill.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

Mention the "Record" when writing.

Pneumatic Hose Couplings

Independent Pneumatic Tool Co., Chicago and New York.

Ingersoll-Rand Co., 11 B'way, New York.

McKiernan Drill Co., 115 B'way, New York.

Pneumatic Tools

Allen, John F., 370-372 Gerard Ave., N. Y.
American Air Compressor Works, 26 Cortlandt St., New York.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Independent Pneumatic Tool Co., Chicago and New York.

Ingersoll-Rand Co., 11 B'way, New York.

Pneumatic Work

Foundation Co., The, 115 B'way, New York.

Poles and Posts (Iron, Steel, Trolley Posts, Etc.)

Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.

East Jersey Pipe Co., 90 West St., New York.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Poles (Flag)

Seelig & Son, R., 170 East Madison St., Chicago, Ill.

Poles (Ranging)

Seelig & Son, R., 170 East Madison St., Chicago, Ill.

Portland Cement

Alma Cement Co., Wellston, Ohio.

Alpha Portland Cement Co., Easton, Pa.

Alsens Portland Cement Co., 45 B'way, N. Y.

American Cement Co., 603-10 Pennsylvania Bldg., Philadelphia, Pa.

Atlas Portland Cement Co., The, 30 Broad St., New York.

Cayuga Lake Cement Co., Ithaca, N. Y.

Chicago House Wrecking Co., West 35th and Iron Sts., Chicago.

Chicago Portland Cement Co., Chicago Stock Exchange, Chicago, Ill.

Claw & Sons, James B., Chicago, Ill.

Connelly Construction Co., El Reno, Okla.

Consolidated Rosendale Cement Co., 26 Cortlandt St., New York.

Coplay Cement & Mfg. Co., Pennsylvania Bldg., Philadelphia, Pa.

Dexter Portland Cement, York Ave., Fourth and Callowhill Sts., Philadelphia, Pa.

Douglas, Geo. B., 29 B'way, New York.

Edison Portland Cement Co., The, 1133 B'way, New York.

Fredenburg & Lounsbury, 289 Fourth Ave., New York.

Mention the "Record" when writing.

French & Co., Samuel H., York Ave., Fourth
 and Callowhill Sts., Philadelphia, Pa.
 Glens Falls Portland Cement Co., 156 Fifth
 Ave., New York.
 Hartranft Cement Co., Wm. G., Real Estate
 Trust Bldg., Philadelphia, Pa.
 Iron-ton Portland Cement Co., Iron-ton, Ohio.
 Kosmos Portland Cement Co., "Inc.," 614-616
 Paul Jones Bldg., Louisville, Ky.
 Lawrence Cement Co., 1 B'way, New York.
 Lehigh Portland Cement Co., Allentown, Pa.
 Marquette Cement Mfg. Co., Chicago, Ill.
 National Fire Proofing Co., Chicago, Ill.
 Omega Portland Cement Co., Jonesville, Mich.
 Peninsular Portland Cement Co., Jackson,
 Mich.
 Pennsylvania Cement Co., 26 Cortlandt St.,
 New York.
 Portland Iron & Steel Co., Board of Trade
 Bldg., Boston, Mass.
 Potomac Dredging Co., 24-25 Home Life Bldg.,
 Washington, D. C.
 Robinson Clay Product Co. of New York,
 Flatiron Bldg., New York.
 St. Louis Portland Cement Co., St. Louis, Mo.
 Standard Concrete Steel Co., 31st and 32d Sts.,
 East River, New York.
 Superior Portland Cement Co., Charleston,
 W. Va.
 Trussed Concrete Steel Co., Detroit, Mich.
 Universal Portland Cement Co., Chicago, Ill.
 Upton, F. R., 9 Clinton St., Newark, N. J.
 Vulcanite Portland Cement Co., Land Title
 Bldg., Philadelphia, Pa.
 Warner Co., Charles, Wilmington, Del.
 Warren-Ehret Co., 1204 Land Title Bldg., Phila.
 Winslow Co., E. J., 138 Jackson Boulevard,
 Chicago, Ill.
 Wolverine Portland Cement Co., Coldwater,
 Mich.

Pots (Melting)

Allis-Chalmers Co., Milwaukee, Wis.
 Clow & Sons, James B., Chicago, Ill.
 Graver Tank Works, Wm., E. Chicago, Ind.
 Union Iron Works, The, Hoboken, N. J.

Powder

Aetna Powder Co., The, Chicago, Ill.
 du Pont de Nemours Powder Co., E. I., Wil-
 mington, Del.
 Ingersoll-Rand Co., 11 B'way, New York.
 Keystone Powder Mfg. Co., Emporium, Pa.
 National Powder Co., 353 Fifth Ave., N. Y.
 Sinnamahoning Powder Mfg. Co., Emporium,
 Pa.

Power Houses

Riverside Bridge Co., Martin's Ferry, Ohio.

Mention the "Record" when writing.

Power Plants (Gas-Producer)

Wood & Co., R. D., 400 Chestnut St., Phila.

Power Plants, Piping and Equipment

Pope, Wm. A., 80 Lake St., Chicago, Ill.

Power Transmission Machinery

Allis-Chalmers Co., Milwaukee, Wis.

Broderick & Bascom Rope Co., St. Louis, Mo.

Chain Belt Co., Milwaukee, Wis.

Cresson Co., Geo. V., Philadelphia, Pa.

General Electric Co., Schenectady, N. Y.

Power & Mining Machinery Co., Cudahy, Wis.

Smith Co., S. Morgan, York, Pa.

Union Iron Works, The, Hoboken, N. J.

Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.

Power Transmission Machinery (Electric)

General Electric Co., Schenectady, N. Y.

Pressed Steel Wheels

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Presses (Hydraulic)

Scully Steel & Iron Co., Chicago, Ill.

Presses (Screw)

Scully Steel & Iron Co., Chicago, Ill.

Pullers (Car)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Pulleys

Allis-Chalmers Co., Milwaukee, Wis.

Chain Belt Co., Milwaukee, Wis.

Cresson Co., Geo. V., Philadelphia, Pa.

Lombard Iron Works & Supply Co., Augusta, Ga.

Smith Co., S. Morgan, York, Pa.

Traylor Engineering Co., 2 Rector St., N. Y.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Valley Iron Works, Williamsport, Pa.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Pulleys (Cast-Iron)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Pulleys (Flange)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Pulleys (Friction Clutch)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Mention the "Record" when writing.

Pulleys (Iron-Split)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Pulleys (Loose)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Pulverizers

Bradley Pulverizer Co., 92 State St., Boston.

Coldwell-Wilcox Co., Newburgh, N. Y.

Kent Mill Co., 170 B'way, New York.

Lehigh Car, Wheel & Axle Works, Catasauqua, Pa.

Power & Mining Machinery Co., Cudahy, Wis.

Prosser & Sons, Thos. ("Krupp"), 15 Gold St., New York.

Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.

Scholl & Co., Julian, 126 Liberty St., N. Y.

Smidth & Co., F. L., 39-41 Cortlandt St., N. Y.

Sturtevant Mill Co., Harrison Sq., Boston.

Traylor Engineering Co., 2 Rector St., N. Y.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Pumping (Compressed-Air)

Presler Prospecting & Engineering Co., Cincinnati, Ohio.

Pumping Machinery (Centrifugal)

Morris & Co., I. P., Philadelphia, Pa.

Pumps

D'Olier Engineering Co., 119-121 South 11th St., Philadelphia, Pa.

Pumps and Pumping Machinery

Abenague Machine Works, Westminster Station, Vt.

Allis-Chalmers Co., Milwaukee, Wis.

American Well Works, Aurora, Ill.

Artesian Well & Supply Co., Dyer and Friendship Sts., Providence, R. I.

Bacon, Earle C., Havemeyer Bldg., New York.

Bethlehem Foundry & Machine Works, So. Bethlehem, Pa.

Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.

Dayton Hydraulic Machinery Co., Dayton, O.

Dean Bros. Steam Pump Works, Indianapolis, Ind.

Deming Co., The, Salem, Ohio.

D'Olier Engineering Co., 121 S. 11th St., Phila.

Douglas, W. & B., Middletown, Conn.

Emerson Steam Pump Co., The, Alexandria, Va.

Erie Pump & Engine Co., Erie, Pa.

Ingersoll-Rand Co., 11 B'way, New York.

Jeanesville Iron Works Co., Hazleton, Pa.

Keystone Driller Co., Beaver Falls, Pa.

Knowles Steam Pump Co., 115 B'way, N. Y.

Lake Erie Engineering Works, Buffalo, N. Y.

Mention the "Record" when writing.

Lawrence Machine Co., Lawrence, Mass.
 Lombard Iron Works & Supply Co., Augusta,
 Ga.
 Mietz, August, 128-138 Mott St., New York.
 Morris & Co., I. P., Philadelphia, Pa.
 Morris Machine Works, Baldwinsville, N. Y.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Prescott Steam Pump Co., Fred M., Milwau-
 kee, Wis.*
 Pulsometer Steam Pump Co., 17 Battery Place,
 New York.
 Rider-Ericsson Engine Co., 35 Warren St.,
 New York.
 Southwark Foundry & Machine Co., Phila.
 Tod Co., William, Youngstown, Ohio.
 Traylor Engineering Co., 2 Rector St., N. Y.
 Union Steam Pump Co., Battle Creek, Mich.
 U. S. Wind Engine & Pump Co., 280 Water
 St., Batavia, Ill.
 Westinghouse Elec. & Mfg. Co., Pittsburg, Pa.
 Wood & Co., R. D., 400 Chestnut St., Phila.

Pumps (Air)

Minneapolis Steel & Machinery Co., Minne-
 apolis, Minn.

Pumps (Belt-Driven)

Allis-Chalmers Co., Milwaukee, Wis.
 American Well Works, Aurora, Ill.
 Artesian Well & Supply Co., Dyer and Friend-
 ship Sts., Providence, R. I.
 Dayton Hydraulic Machinery Co., Dayton, O.
 Dean Bros. Steam Pump Works, Indianapol-
 is, Ind.
 Deming Co., The, Salem, Ohio.
 D'Olier Engineering Co., 121 South 11th St.,
 Philadelphia, Pa.
 Douglas, W. & B., Middletown, Conn.
 Erie Pump & Engine Co., Erie, Pa.
 Hough Co., William B., 1336-7 Monadnock
 Block, Chicago, Ill.
 Jeanesville Iron Works Co., Hazleton, Pa.
 Lawrence Machine Co., Lawrence, Mass.
 Lombard Iron Works & Supply Co., Augusta,
 Ga.

Morris Machine Works, Baldwinsville, N. Y.
 Traylor Engineering Co., 2 Rector St., N. Y.
 Union Steam Pump Co., Battle Creek, Mich.
 U. S. Wind Engine & Pump Co., 280 Water
 St., Batavia, Ill.
 Watson-Stillman Co., The, 26 Cortlandt St.,
 New York.
 Wood & Co., R. D., 400 Chestnut St., Phila.

Pumps (Boiler-Feed)

Minneapolis Steel & Machinery Co., Minne-
 apolis, Minn.
 Scully Steel & Iron Co., Chicago, Ill.

Pumps (Centrifugal)

Abenaque Machine Works, Westminster Sta-
 tion, Vt.

Mention the "Record" when writing.

Alberger Pump Co., 95 Liberty St., N. Y.
 Allis-Chalmers Co., Milwaukee, Wis.
 American Well Works, Aurora, Ill.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Clow & Sons, James B., Chicago, Ill.
 Dayton Hydraulic Machinery Co., Dayton, O.
 De Laval Steam Turbine Co., Trenton, N. J.
 Deming Co., The, Salem, Ohio.
 D'Olier Engineering Co., 119-121 So. 11th St.
 Philadelphia, Pa.
 Douglas, W. & B., Middletown, Conn.
 Erie Pump & Engine Co., Erie, Pa.
 Hough Co., William B., 1336-7 Monadnock
 Block, Chicago, Ill.
 Jeanesville Iron Works Co., Hazleton, Pa.
 Lawrence Machine Co., Lawrence, Mass.
 Lombard Iron Works & Supply Co., Augusta
 Ga.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 Mietz, August, 128-138 Mott St., New York.
 Morris Machine Works, Baldwinsville, N. Y.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Prescott Steam Pump Co., Fred M., Milwau-
 kee, Wis.
 Southwark Foundry & Machine Co., Phila.
 Tod Co., William, Youngstown, Ohio.
 Traylor Engineering Co., 2 Rector St., N. Y.
 U. S. Wind Engine & Pump Co., 280 Water
 St., Batavia, Ill.
 Watson-Stillman Co., The, 26 Cortlandt St.,
 New York.
 Wetherill Bros. Machine Co., Chester, Pa.
 Wood & Co., R. D., 400 Chestnut St., Phila.

Pumps (Contractors', for Sewers and Foundations)

Abenague Machine Works, Westminster Sta-
 tion, Vt.
 Alberger Pump Co., 95 Liberty St., N. Y.
 American Well Works, Aurora, Ill.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Carlin Machinery & Supply Co., "Inc.," 223
 Sandusky St., North Side, Pittsburg, Pa.
 Dayton Hydraulic Machinery Co., Dayton, O.
 Deming Co., The, Salem, Ohio.
 D'Olier Engineering Co., 121 South 11th St.,
 Philadelphia, Pa.
 Douglas, W. & B., Middletown, Conn.
 Edson Manufacturing Co., 255-257 Atlantic
 Ave., Boston, Mass.
 Emerson Steam Pump Co., The, Alexandria,
 Va.
 Erie Pump & Engine Co., Erie, Pa.
 Lawrence Machine Co., Lawrence, Mass.
 Lombard Iron Works & Supply Co., Augusta,
 Ga.
 Morris Machine Works, Baldwinsville, N. Y.
 National Interlocking Steel Sheetting Co., Chi-
 cago, Ill.

Mention the "Record" when writing.

Perrin, Seamans & Co., 57 Oliver St., Boston.
Pulsometer Steam Pump Co., 17 Battery Place,
New York.
Shaw Co., Willis, 171 La Salle St., Chicago.
Union Steam Pump Co., Battle Creek, Mich.
Watson-Stillman Co., The, 26 Cortlandt St.,
New York.

Pumps (Deep-Well)

Abenague Machine Works, Westminster Station, Vt.
Allis-Chalmers Co., Milwaukee, Wis.
American Well Works, Aurora, Ill.
Artesian Well & Supply Co., Dyer & Friendship Sts., Providence, R. I.
Buffalo Steam Pump Co., Buffalo, N. Y.
Clow & Sons, James B., Chicago, Ill.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
Deming Co., The, Salem, Ohio.
Douglas, W. & B., Middletown, Conn.
Flint & Walling Mfg. Co., Kendallville, Ind.
Ingersoll-Rand Co., 11 B'way, New York.
Keystone Driller Co., Beaver Falls, Pa.
Lombard Iron Works & Supply Co., Augusta, Ga.
Mietz, August, 128-138 Mott St., New York.
Union Steam Pump Co., Battle Creek, Mich.
U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.
Watson-Stillman Co., The, 26 Cortlandt St., New York.

Pumps (Diaphragm)

Buffalo Steam Pump Co., Buffalo, N. Y.
Clow & Sons, James B., Chicago, Ill.
Deming Co., The, Salem, Ohio.
Douglas, W. & B., Middletown, Conn.
Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
Lombard Iron Works & Supply Co., Augusta, Ga.
Perrin, Seamans & Co., 57 Oliver St., Boston.

Pumps (Dredging)

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Pumps (Electric)

Allis-Chalmers Co., Milwaukee, Wis.
American Well Works, Aurora, Ill.
Buffalo Steam Pump Co., Buffalo, N. Y.
Burke Electric Co., Erie, Pa.
C. & C. Electric Co., The, Garwood, N. J.
Dayton Hydraulic Machinery Co., Dayton, O.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
De Laval Steam Turbine Co., Trenton, N. J.
Deming Co., The, Salem, Ohio.
D'Olier Engineering Co., 119-121 S. 11th St., Philadelphia, Pa.
Douglas, W. & B., Middletown, Conn.

Mention the "Record" when writing.

Erie Pump & Engine Co., Erie, Pa.
 General Electric Co., Schenectady, N. Y.
 International Electric & Engineering Co., 148
 Chambers St., New York.
 Jeannesville Iron Works Co., Hazleton, Pa.
 Mietz, August, 128-138 Mott St., New York.
 Morris Machine Works, Baldwinsville, N. Y.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Prescott Steam Pump Co., Fred M., Milwaukee,
 Wis.
 Traylor Engineering Co., 2 Rector St., N. Y.
 Union Steam Pump Co., Battle Creek, Mich.
 Wood & Co., R. D., 400 Chestnut St., Phila.

Pumps (Fire, Force and Power)

Allis-Chalmers Co., Milwaukee, Wis.
 American Well Works, Aurora, Ill.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Dayton Hydraulic Machinery Co., Dayton, O.
 Dean Bros. Steam Pump Works, Indianapolis,
 Ind.
 Deming Co., The, Salem, Ohio.
 D'Olier Engineering Co., 121 S. 11th St., Phila.
 Douglas, W. & B., Middletown, Conn.
 Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
 Erie Pump & Engine Co., Erie, Pa.
 Lawrence Machine Co., Lawrence, Mass.
 Prescott Steam Pump Co., Fred M., Milwaukee,
 Wis.
 Union Steam Pump Co., Battle Creek, Mich.
 U. S. Wind Engine & Pump Co., 280 Water
 St., Batavia, Ill.
 Wood & Co., R. D., 400 Chestnut St., Phila.

Pumps (Gasoline-Driven)

Erie Pump & Engine Co., Erie, Pa.

Pumps (Mine)

Allis-Chalmers Co., Milwaukee, Wis.
 American Well Works, Aurora, Ill.
 Bacon, Earle C., Havemeyer Bldg., N. Y.
 Buffalo Steam Pump Co., Buffalo, N. Y.
 Carlin Machinery & Supply Co., "Inc.," 222
 Sandusky St., North Side, Pittsburg, Pa.
 Dayton Hydraulic Machinery Co., Dayton, O.
 Dean Bros. Steam Pump Works, Indianapolis,
 Ind.
 Deming Co., The, Salem, Ohio.
 D'Olier Engineering Co., 121 S. 11th St., Phila.
 Douglas, W. & B., Middletown, Conn.
 Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
 Emerson Steam Pump Co., The, Alexandria,
 Va.
 Erie Pump & Engine Co., Erie, Pa.
 Ingersoll-Rand Co., 11 B'way, New York.
 Jeannesville Iron Works Co., Hazleton, Pa.
 Lawrence Machine Co., Lawrence, Mass.
 Morris Machine Works, Baldwinsville, N. Y.
 National Interlocking Steel Sheeting Co., Chi-
 cago, Ill.

Mention the "Record" when writing.

Prescott Steam Pump Co., Fred M., Milwaukee, Wis.
Pulsometer Steam Pump Co., 17 Battery Place, New York.
Union Steam Pump Co., Battle Creek, Mich.
Wood & Co., R. D., 400 Chestnut St., Phila.

Pumps (Power)

Allis-Chalmers Co., Milwaukee, Wis.
American Well Works, Aurora, Ill.
Buffalo Steam Pump Co., Buffalo, N. Y.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
Deming Co., The, Salem, Ohio.
D'Olier Engineering Co., 121 S. 11th St., Phila.
Douglas, W. & B., Middletown, Conn.
Erie Pump & Engine Co., Erie, Pa.
Mietz, August, 128-138 Mott St., New York.
Union Steam Pump Co., Battle Creek, Mich.
Wood & Co., R. D., 400 Chestnut St., Phila.

Pumps (Rotary)

Allis-Chalmers Co., Milwaukee, Wis.
American Well Works, Aurora, Ill.
Buffalo Steam Pump Co., Buffalo, N. Y.
Deming Co., The, Salem, Ohio.
D'Olier Engineering Co., 121 S. 11th St., Phila.
Douglas, W. & B., Middletown, Conn.
Prescott Steam Pump Co., Fred M., Milwaukee, Wis.
Southwark Foundry & Machine Co., Phila.
Union Steam Pump Co., Battle Creek, Mich.

Pumps (Sand)

Allis-Chalmers Co., Milwaukee, Wis.
Bucyrus Co., The, So. Milwaukee, Wis.
Buffalo Steam Pump Co., Buffalo, N. Y.
Dayton Hydraulic Machinery Co., Dayton, O.
Erie Pump & Engine Co., Erie, Pa.
Ingersoll-Rand Co., 11 B'way, New York.
Lawrence Machine Co., Lawrence, Mass.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
Mietz, August, 128-138 Mott St., New York.
Morris Machine Works, Baldwinsville, N. Y.
National Interlocking Steel Sheet Co., Chicago, Ill.
Shaw Co., Willis, 171 La Salle St., Chicago.
Wetherill Bros. Machine Co., Chester, Pa.
Wood & Co., R. D., 400 Chestnut St., Phila.

Pumps (Sewage, Quarry, Mining, Irrigating and Dredging)

Deming Co., The, Salem, Ohio.

Pumps (Steam)

D'Olier Engineering Co., 121 S. 11th St., Phila.
Lawrence Machine Co., Lawrence, Mass.
Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Mention the "Record" when writing.

Pumps (Steam, Sewage, Quarry, Mining, Irrigating and Dredging)

Allis-Chalmers Co., Milwaukee, Wis.
American Well Works, Aurora, Ill.
Bucyrus Co., The, So. Milwaukee, Wis.
Buffalo Steam Pump Co., Buffalo, N. Y.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Dayton Hydraulic Machinery Co., Dayton, O.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
D'Olier Engineering Co., 121 S. 11th St., Phila.
Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
Emerson Steam Pump Co., The, Alexandria, Va.
Erie Pump & Engine Co., Erie, Pa.
Jeansville Iron Works Co., Hazleton, Pa.
Morris Machine Works, Baldwinsville, N. Y.
National Interlocking Steel Sheeting Co., Chicago, Ill.
Prescott Steam Pump Co., Fred M., Milwaukee, Wis.
Pulsometer Steam Pump Co., Whitehall Bldg., New York.
Reliance Mach. & Tool Works, St. Louis, Mo.
Traylor Engineering Co., 2 Rector St., N. Y.
Union Steam Pump Co., Battle Creek, Mich.
U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.
Wetherill Bros. Machine Co., Chester, Pa.
Wood & Co., R. D., 400 Chestnut St., Phila.

Pumps (Trench)

American Well Works, Aurora, Ill.
Buffalo Steam Pump Co., Buffalo, N. Y.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Clow & Sons, James B., Chicago, Ill.
Deming Co., The, Salem, Ohio.
Douglas, W. & B., Middletown, Conn.
Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
Emerson Steam Pump Co., The, Alexandria, Va.
Erie Pump & Engine Co., Erie, Pa.
Lawrence Machine Co., Lawrence, Mass.
Morris Machine Works, Baldwinsville, N. Y.
National Interlocking Steel Sheeting Co., Chicago, Ill.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Pulsometer Steam Pump Co., 17 Battery Place, New York.
Union Steam Pump Co., Battle Creek, Mich.

Pumps (Triplex)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Pumps (Vacuum)

Buffalo Steam Pump Co., Buffalo, N. Y.
Dean Bros. Steam Pump Works, Indianapolis, Ind.

Mention the "Record" when writing.

Perrin, Seamans & Co., 57 Oliver St., Boston.
Prescott Steam Pump Co., Fred M., Milwaukee, Wis.
Southwark Foundry & Machine Co., Phila.
Union Steam Pump Co., Battle Creek, Mich.
Williamson Bros. Co., Aramingo Ave. and
Cumberland St., Philadelphia, Pa.

Pumps (Waterworks)

Allis-Chalmers Co., Milwaukee, Wis.
American Well Works, Aurora, Ill.
Buffalo Steam Pump Co., Buffalo, N. Y.
Dayton Hydraulic Machinery Co., Dayton, O.
De Laval Steam Turbine Co., Trenton, N. J.
Deming Co., The, Salem, Ohio.
D'Olier Engineering Co., 121 S. 11th St., Phila.
Douglas, W. & B., Middletown, Conn.
Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
Erie Pump & Engine Co., Erie, Pa.
Jeanesville Iron Works Co., Hazleton, Pa.
Lombard Iron Works & Supply Co., Augusta,
Ga.
Mietz, August, 128-138 Mott St., New York.
Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.
Morris Machine Works, Baldwinsville, N. Y.
Prescott Steam Pump Co., Fred M., Milwau-
kee, Wis.
Southwark Foundry & Machine Co., Phila.
U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.
Wisconsin Engine Co., Corliss, Wis.

Pumps (Windmill)

Deming Co., The, Salem, Ohio.
Douglas, W. & B., Middletown, Conn.
Flint & Walling Mfg. Co., Kendallville, Ind.
Lombard Iron Works & Supply Co., Augusta,
Ga.
U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.

Punches and Shears

Scully Steel & Iron Co., Chicago, Ill.

Punching and Shearing Machines

International Electric & Engineering Co., 148
Chambers St., New York.
Pels & Co., Henry, 66-68 Broad St., N. Y.
Pittsburgh Mfg. Co., Pittsburgh, Pa.
Union Iron Works, The, Hoboken, N. J.
Watson-Stillman Co., 26 Cortlandt St., N. Y.
Wood & Co., R. D., 400 Chestnut St., Phila.

Push Cars

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Quarry Bars

McKiernan Drill Co., 115 B'way, New York.
Perrin, Seamans & Co., 57 Oliver St., Boston.

Quarry Machinery

Bacon, Earle C., Havemeyer Bldg., New York.

Mention the "Record" when writing.

Broderick & Bascom Rope Co., St. Louis, Mo.
 Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Dobbie Foundry & Mach. Co., Niagara Falls, N. Y.
 Indiana Road Machine Co., Fort Wayne, Ind.
 Ingersoll-Rand Co., 11 B'way, New York.
 Leschen & Sons Rope Co., A., St. Louis, Mo.
 McKiernan Drill Co., 115 B'way, N. Y.
 Monighan Machine Co., 809-823 Carroll Ave., Chicago, Ill.
 Parker Hoist & Machine Co., 971 N. Francisco Ave., Chicago, Ill.
 Power & Mining Machinery Co., Cudahy, Wis.
 Shaw Co., Willis, 171 La Salle St., Chicago.
 Sturtevant Mill Co., Harrison Sq., Boston.
 Sullivan Machinery Co., Railway Exchange, Chicago, Ill.
 Traylor Engineering Co., 2 Rector St., N. Y.
 Union Iron Works, The, Hoboken, N. J.

Quarry Machinery (Cars)

Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
 Ingersoll-Rand Co., 11 B'way, New York.
 Robins Conveying Belt Co., Passaic, N. J.
 Sullivan Machinery Co., Railway Exchange, Chicago, Ill.
 Youngstown Car Mfg. Co., Youngstown, O.

Quarry Pumps

American Well Works, Aurora, Ill.
 Bacon, Earle C., Havemeyer Bldg., N. Y.
 Dayton Hydraulic Machinery Co., Dayton, O.
 D'Olier Engineering Co., 121 S. 11th St., Phila.
 Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
 Emerson Steam Pump Co., The, Alexandria, Va.
 Morris Machine Works, Baldwinsville, N. Y.
 Perrin, Seamans & Co., 37 Oliver St., Boston.
 Pulsometer Steam Pump Co., 17 Battery Place, New York.
 Wood & Co., R. D., 400 Chestnut St., Phila.

Racks (Cut)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Radiators

American District Steam Co., Lockport, N. Y.
 American Radiator Co., Chicago, Ill.
 Clow & Sons, James B., Chicago, Ill.
 Gurney Heater Mfg. Co., 74 Franklin St., Boston, Mass.
 Kewanee Boiler Co., Kewanee, Ill.

Rail Benders

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Mention the "Record" when writing.

Rail Braces

Indianapolis Switch & Frog Co., Springfield, O.

Rail Cars

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Rail Joints, Fastenings, Etc.

Douglas, Geo. B., 29 B'way, New York.

Indianapolis Switch & Frog Co., Springfield, O.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Pennsylvania Steel Co., The, Phila., Pa.

Wiener Company, Ernst, 168 Morris Bldg., New York.

Wonham-Magor Engineering Works, 29 B'way, New York.

Railings, Guards, Fences, Etc.

Anchor Post Iron Works, 147 Nassau St., N.Y.

Belmont Iron Works, 22d St., & Washington Ave., Philadelphia, Pa.

Darby & Sons Co., "Inc.," Edw., Phila., Pa.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Schreiber & Sons Co., L., Cincinnati, O.

Whitehead & Kales Iron Works, Detroit, Mich.

Railroads

Illinois Central R. R., Chicago, Ill.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Long Island R. R., New York.

Pennsylvania Railroad Co., Phila., Pa.

Wiener Company, Ernst, 168 Morris Bldg., New York.

Railroad Track Supplies

Scully Steel & Iron Co., Chicago, Ill.

Rails and Tracks

Douglas, Geo. B., 29 B'way, New York.

Indianapolis Switch & Frog Co., Springfield, O.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Pennsylvania Steel Co., The, Phila., Pa.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Wiener Company, Ernst, 168 Morris Bldg., New York.

Wonham-Magor Engineering Works, 29 B'way, New York.

Rails, Second-Hand

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Douglas, Geo. B., 29 B'way, New York.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Shaw Co., Willis, 171 La Salle St., Chicago.

Wonham-Magor Engineering Works, 29 B'way, New York.

Railway Equipment

Allis-Chalmers Co., Milwaukee, Wis.

Railway Supplies (Electric)

General Electric Company, Schenectadv, N. Y.

Mention the "Record" when writing.

Railway Track Specialties and Equipment

Douglas, Geo. B., 20 B'way, New York.
Gulfport Creosoting Co., Gulfport, Miss.
Indianapolis Switch & Frog Co., Springfield, O.
Johns-Manville Co., H. W., 100 William St.,
New York.
Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.
Pennsylvania Steel Co., The, Phila., Pa.
Pittsburg Tubular Steel Whiffletree Co., Pitts-
burg, Pa.
Union Iron Works, The, Hoboken, N. J.
U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.
Wiener Company, Ernst, 168 Morris Bldg.,
New York.
Monham-Magor Engineering Works, 29 B'way,
New York.
Youngstown Car Mfg. Co., Youngstown, O.

Railway Water Supplies

U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.

Railways (Industrial)

Northern Engineering Works, Detroit, Mich.

Railways, Industrial and Narrow- Gage

Chandler, Geo. M., 42-9 North Illinois St.,
Indianapolis, Ind.
Davenport Locomotive Works, Davenport, Ia.
Indianapolis Switch & Frog Co., Springfield,
Ohio.
Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.
Mead-Morrison Mfg. Co., Cambridge, Mass.
Stuebner Iron Works, G. L., Foot of 12th St.,
Long Island City, N. Y.
Union Iron Works, The, Hoboken, N. J.
Wiener Company, Ernst, 168 Morris Bldg.,
New York.
Wonham-Magor Engineering Works, 29 B'way,
New York.
Youngstown Car Mfg. Co., Youngstown, O.

Rate Controller for Filters

Simplex Valve & Meter Co., 112 North Broad
St., Philadelphia, Pa.

Reamers (Bridge)

Independent Pneumatic Tool Co., Chicago and
New York.

Reamers (Pneumatic)

Independent Pneumatic Tool Co., Chicago and
New York.

Rectifiers (Mercury Arc, for Chang- ing Alternating Current to Direct Current)

General Electric Company, Schenectady, N.Y.

Mention the "Record" when writing.

Refrigerating Plants

York Manufacturing Co., York, Pa.

Regulators (Steam)

American District Steam Co., Lockport, N.Y.

Regulators (Water Pressure)

Allis-Chalmers Co., Milwaukee, Wis.

Simplex Valve & Meter Co., 112 North Broad St., Philadelphia, Pa.

Reinforced Concrete Construction (See Fireproof Construction)

Aberthaw Construction Co., 8 Beacon St., Boston, Mass.

American Concrete-Steel Co., Union Bldg., Newark, N. J.

American System of Reinforcing, 189 La Salle St., Chicago, Ill.

Belmont Iron Works, 22d St., & Washington Ave., Philadelphia, Pa.

Bunting Co., J. E., Flatiron Bldg., N. Y.

Concrete-Steel Engineering Co., Park Row Bldg., New York.

Ferro-Concrete Construction Co., The, Richmond & Harriet St., Cincinnati, Ohio.

Gabriel Concrete Reinforcement Co., 1206-1208 Penobscot Bldg., Detroit, Mich.

General Fireproofing Co., The, Youngstown, O.

Hennebique Construction Co., 1170 B'way, New York.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Maxwell Concrete Steel Co., 516 Penobscot Bldg., Detroit, Mich.

Noelke-Richards Iron W'ks, Indianapolis, Ind.

Portland Iron & Steel Co., Board of Trade Bldg., Boston, Mass.

Raymond Concrete Pile Co., 135 Adams St., Chicago, Ill.

Riverside Bridge Co., Martins Ferry, Ohio.

Rodgers Company, The, Monadnock Block, Chicago, Ill.

Trussed Concrete Steel Co., Detroit, Mich.

Turner Construction Co., 11 B'way, New York.

Riveters (Hydraulic)

Scully Steel & Iron Co., Chicago, Ill.

Riveters (Pneumatic)

Scully Steel & Iron Co., Chicago, Ill.

Riveters (Steam)

Scully Steel & Iron Co., Chicago, Ill.

Riveting Hammers (Pneumatic)

Independent Pneumatic Tool Co., Chicago and New York.

Riveting Machines

Allen, John F., 370-372 Gerard Ave., N. Y.

Ingersoll-Rand Co., 11 B'way, New York.

Mention the "Record" when writing.

Lombard Iron W'ks & Supply Co., Augusta, Ga.
Watson-Stillman Co., The, 26 Cortl'dt, N. Y.
Wood & Co., R. D., 400 Chestnut St., Philadelphia, Pa.

Riveting Machines (Pneumatic)

Independent Pneumatic Tool Co., Chicago and New York.

Rivets (Boiler and Structural)

Scully Steel & Iron Co., Chicago, Ill.

Road Machinery

Austin Manufacturing Co., Chicago, Ill.
Bacon, Earle C., Havemeyer Bldg., N. Y.
Buffalo Steam Roller Co., Buffalo, N. Y.
Chicago Concrete Machinery Co., 20 South Canal St., Chicago, Ill.
Climax Road Machine Co., Marathon, N. Y.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Hayward Company, The, 97 Cedar St., N. Y.
Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
Indiana Road Machine Co., Fort Wayne, Ind.
Iroquois Iron Works, Buffalo, N. Y.
Kelly-Springfield Road Roller Co., Springfield, Ohio.
Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.
Lombard Iron W'ks & Supply Co., Augusta, Ga.
Monarch Road Roller Co., Groton, Tompkins Co., N. Y.
Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.
Shaw Co., Willis, 171 La Salle St., Chicago.
Sturtevant Mill Co., Harrison Sq., Boston.
Troy Wagon Works Co., The, Troy, Ohio.

Road Rollers

Austin-Western Mfg. Co., "Ltd.," Chicago, Ill.
Chandler, Geo. M., 42-9 North Illinois St., Indianapolis, Ind.
Longenecker & Co., Chas., 150 Nassau St., New York.

Road Rollers (Steam)

Scholl & Co., Julian, 126 Liberty St., N. Y.

Rods (Leveling)

Seelig & Son, R., 170 East Madison St., Chicago, Ill.

Roller Mills (With or Without Air Separators)

Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.

Rollers (Horse)

Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Climax Road Machine Co., Marathon, N. Y.
Indiana Road Machine Co., Fort Wayne, Ind.

Mention the "Record" when writing.

Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.

Rollers (Steam)

Buffalo Steam Roller Co., Buffalo, N. Y.

Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Erie Machine Shops, Erie, Pa.

Kelly-Springfield Road Roller Co., Springfield, Ohio.

Monarch Road Roller Co., Groton, Tompkins Co., New York.

Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.

Shaw Co., Willis, 171 La Salle St., Chicago.

Rolling Mill Machinery

Allis-Chalmers Co., Milwaukee, Wis.

Tod Co., William, Youngstown, Ohio.

Roofing

American Asphaltum & Rubber Co., Woman's Temple, Chicago, Ill.

American Skylight & Iron Works, 221 Randolph Ave., Jersey City, N. J.

Barrett Mfg. Co., New York and Chicago.

Bayer, J. C., Front & Market Sts., Portland, Oregon.

Berger Mfg. Co., The, Canton, Ohio.

Buffalo Steel Co., Towanda, N. Y.

Garry Iron & Steel Co., Cleveland, Ohio.

General Fireproofing Co., The, Youngstown, Ohio.

Inland Steel Co., First Nat'l Bank Bldg., Chicago, Ill.

Johns-Manville Co., H. W., 100 William St., New York.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Mullins Co., W. H., 342 Franklin St., Salem, Ohio.

Scaife & Sons Co., Wm. B., Pittsburg, Pa.

Standard Asphalt & Rubber Co., 944 First Nat'l Bank Bldg., Chicago, Ill.

Roofing (Composition)

Warren-Ehret Co., 1204 Land Title Bldg., Philadelphia, Pa.

Roofing (Felt)

Warren-Ehret Co., 1204 Land Title Bldg., Philadelphia, Pa.

Roofing (Iron and Steel)

Scully Steel & Iron Co., Chicago, Ill.

Roofing (Pitch)

Warren-Ehret Co., 1204 Land Title Bldg., Philadelphia, Pa.

Mention the "Record" when writing.

Roofing (Slag)

Warren-Ehret Co., 1204 Land Title Bldg.,
Philadelphia, Pa.

Roofing (Slate, Tile, Metal)

Atlas Roofing Co., 115-117 Clark St., New-
burgh, N. Y.

Warren-Ehret Co., 1204 Land Title Bldg.,
Philadelphia, Pa.

Roofing (Tile)

Warren-Ehret Co., 1204 Land Title Bldg.,
Philadelphia, Pa.

Roofs

Barrett Mfg. Co., New York and Chicago.

Bayer, J. C., Front & Market Sts., Portland,
Oregon.

Bellefontaine Bridge & Steel Co., Bellefon-
taine, Ohio.

Berlin Construction Co., Berlin, Conn.

Boston Bridge Works, The, 47 Winter St.,
Boston, Mass.

Chicago Bridge & Iron Works, Washington
Heights Station, Chicago, Ill.

Clinton Bridge & Iron Works, Clinton, Ia.

Decatur Bridge Co., Decatur, Ill.

Hydrex Felt & Engineering Co., 120 Liberty
St., New York.

Lupton's Sons Co., David, Phila., Pa.

Rodger Company, The, Monadnock Block, Chi-
cago, Ill.

Warren-Ehret Co., 1204 Land Title Bldg.,
Philadelphia, Pa.

Winslow Co., E. J., 138 Jackson Boulevard,
Chicago, Ill.

Roof Trusses

Riverside Bridge Co., Martins Ferry, Ohio.

Rope (Guy)

Leschen & Sons Rope Co., A., St. Louis, Mo.

Rope (Manila)

Broderick & Bascom Rope Co., St. Louis, Mo.

Leschen & Sons Rope Co., A., St. Louis, Mo.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

Luptons Son's Co., David, Phila., Pa.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Webster Mfg. Co., 1075 W. 15th St., Chicago,
Ill.; 88-90 Reade St., New York.

Rope (Manila, Sisal and Jute)

American Mfg. Co., 65 Wall St., New York.

Rope (Switch)

Broderick & Bascom Rope Co., St. Louis, Mo.

Leschen & Sons Rope Co., A., St. Louis, Mo.

Rope (Transmission Power)

American Steel & Wire Co., Commercial Nat'l
Bank Bldg., Chicago, Ill.

Mention the "Record" when writing.

Rope (Wire)

American Steel & Wire Co., Commercial Nat'l
Bank Bldg., Chicago, Ill.
Broderick & Bascom Rope Co., St. Louis, Mo.
Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.
Chicago House Wrecking Co., West 35th &
Iron Sts., Chicago, Ill.
International Electric & Engineering Co., 148
Chambers St., New York.
Leschen & Sons Rope Co., A., St. Louis, Mo.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Roebbling's Sons Co., John A., Trenton, N. J.
Scully Steel & Iron Co., Chicago, Ill.
Shaw Co., Willis, 171 La Salle St., Chicago.

Rubber Boots

Rubberhide Co., Essex Bldg., Boston, Mass.

Rules and Tapes

Lufkin Rule Co., The, Saginaw, Mich.
Seelig & Son, R., 170 East Madison St., Chi-
cago, Ill.
Wiebusch & Hilger, "Ltd.," 9 Murray St.,
New York.

Sand

Upton, F. R., 9 Clinton St., Newark, N. J.

Sand-Blast Machines

Independent Pneumatic Tool Co., Chicago and
New York.

Sand (Building)

Warner Co., Charles, Wilmington, Del.

Sand (Filter)

Warner Co., Charles, Wilmington, Del.

Sand (Sand-Blast)

Warner Co., Charles, Wilmington, Del.

Sash Operating Apparatus

Lord & Burnham Co., Irvington-on-Hudson,
N. Y.

Sash Operating Device

Hitchings & Co., 1170 B'way, New York.

Sawmill Machinery

Abenague Machine Works, Westminster Sta-
tion, Vt.

Allis-Chalmers Co., Milwaukee, Wis.

Chain Belt Co., Milwaukee, Wis.

Leschen & Sons Rope Co., A., St. Louis, Mo.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

Scale Boxes

Contractors Plant Mfg. Co., Buffalo, N. Y.

Cyclopean Iron Works Co., The, 402-404 Clare-
mont Ave., Jersey City, N. J.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Union Iron Works, The, Hoboken, N. J.

Scales

Osgood Scale Co., Binghamton, N. Y.

Richardson Scale Co., 3 Park Row, N. Y.

Mention the "Record" when writing.

Scarifiers

Buffalo Steam Roller Co., Buffalo, N. Y.
Kelly-Springfield Road Roller Co., Springfield,
Ohio.
Scholl & Co., Julian, 126 Liberty St., N. Y.

Schools and Colleges

American School of Correspondence, Chicago.
Clarkson School of Technology, Potsdam, N.Y.
Empire School of Structural Drafting, P. O.
Box 562, Troy, N. Y.
Lafayette College, Easton, Pa.
Lehigh University, So. Bethlehem, Pa.
Michigan College of Mines, Houghton, Mich.
New York University, University Heights,
New York.
Ohio Northern University, Ada, Ohio.
Pennsylvania Military College, Chester, Pa.
Rensselaer Polytechnic Institute, Troy, N.Y.
Rose Polytechnic Institute, Terre Haute, Ind.
School of Structural Drafting, P. O. Box
Box 2122, Boston, Mass.
Sheffield Scientific School, New Haven, Conn.
State University of Iowa, Iowa City, Ia.
Stevens School, Hoboken, N. J.
Tuft's College, Tuft's College P. O., Mass.
University of Illinois, Urbana, Ill.
University of Pennsylvania, Philadelphia, Pa.
University of Vermont, Burlington, Vt.
Washington College of Engineering, Washing-
ton, D. C.
Washington University, St. Louis, Mo.
Western University of Pennsylvania, Alle-
gheny, Pa.

Scientific Books (See Books, Engi- neering and Technical)

McGraw Publishing Co., 239 W. 39th St., N. Y.
Van Nostrand & Co., D., 23 Murray St., N. Y.
Wiley & Sons, John, 43-45 E. 19th St., N. Y.

Scrapers

Climax Road Machine Co., Marathon, N. Y.
Indiana Road Machine Co., Fort Wayne, Ind.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
Pittsburg Tubular Steel Whiffletree Co., Pitts-
burg, Pa.

Scrapers, Road (See Road Mach'y)

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Hough Co., William B., 1336-7 Monadnock
Block, Chicago, Ill.
Indiana Road Machine Co., Fort Wayne, Ind.
Pittsburg Tubular Steel Whiffletree Co., Pitts-
burg, Pa.

Scrapers (Spring Snow)

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Screens (Sand, Coal and Gravel)

Allis-Chalmers Co., Milwaukee, Wis.

Mention the "Record" when writing.

Bacon, Earle C., Havemeyer Bldg., New York.
Climax Road Machine Co., Marathon, N. Y.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Darby & Sons Co., Inc., Edw., Phila., Pa.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Sturtevant Mill Co., Harrison St., Boston.
Traylor Engineering Co., 2 Rector St., N. Y.
Union Iron Works, The, Hoboken, N. J.
Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Screens (Steel Plate, Revolving, for Stone and Ore)

Bacon, Earle C., Havemeyer Bldg., N. Y.

Searchlights (Electric)

General Electric Co., Schenectady, N. Y.

Second-Hand Machinery

Advance Equipment Co., West End Trust Bldg., Philadelphia, Pa.
Broderick & Bascom Rope Co., St. Louis, Mo.
Buffalo Steam Roller Co., Buffalo, N. Y.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.
Chicago House Wrecking Co., W. 35th and Iron Sts., Chicago, Ill.
Continental Car & Equipment Co., 17 Battery Place, New York.
Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
Crosthwaite, J. L., 15 Broad St., New York.
Fitzgerald, B. E., 1617 Fifth Ave., McKeesport, Pa.
Lombard Iron Works & Supply Co., Augusta, Ga.
Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.
Scully Steel & Iron Co., Chicago, Ill.
Shaw Co., Willis, 171 La Salle St., Chicago, Ill.
Troy Public Works Co., Utica, N. Y.

Semaphores

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Separators (Air) for Graphite, Talc, Lime, Clay, Shale, Dry Paint and Chemical Powders, Etc.

Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.

Separators (Cement, Plaster, Etc.)

Raymond Bros. Impact Pulverizer Co., 143 Laflin St., Chicago, Ill.
Sturtevant Mill Co., Harrison Sq., Boston.
Watson-Stillman Co., The, 26 Cortlandt St., New York.

Mention the "Record" when writing.

Separators (Steam and Grease)

American District Steam Co., Lockport, N. Y.
Clow & Sons, James B., Chicago, Ill.
Valley Iron Works, Williamsport, Pa.
Webster & Co., Warren, Camden, N. J.
Youngstown Car Mfg. Co., Youngstown, O.

Separators (Steam and Oil)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Service Boxes

Coffin Valve Co., Boston, Mass.

Settees (Iron)

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.
Darby & Sons Co., "Inc.," Edw., Phila., Pa.
Stewart Iron Works Co., The, Cincinnati, O.

Sewage Disposal

Atlas Dryer Co., The, Cleveland, Ohio.
Bunting Co., J. E., Flatiron Bldg., N. Y.
Cameron Septic Tank Co., 812-813 Monadnock Block, Chicago, Ill.
Lewis & Kitchen, 433 Wabash Ave., Chicago.
Merritt & Co., 1015 Ridge Ave., Phila., Pa.
Pacific Flush-Tank Co., 184 La Salle St., Chicago, Ill.
Trussed Concrete Steel Co., Detroit, Mich.

Sewage Pumping Machinery

Allis-Chalmers Co., Milwaukee, Wis.
Dayton Hydraulic Machinery Co., Dayton, O.
Dean Bros. Steam Pump Works, Indianapolis, Ind.
D'Olier Engineering Co., 121 S. 11th St., Phila.
Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
Emerson Steam Pump Co., The, Alexandria, Va.
Lawrence Machine Co., Lawrence, Mass.
Merritt & Co., 1015 Ridge Ave., Philadelphia.

Sewer Braces

Kalamazoo Foundry & Machine Co., Kalamazoo, Mich.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
Perrin, Seamans & Co., 57 Oliver St., Boston.

Sewer Buckets

McCoy Co., Henry J., 65-67 Dey St., N. Y.
Perrin, Seamans & Co., 57 Oliver St., Boston.

Sewer Excavating Machinery

Municipal Excavating & Contracting Co., Jackson Boulevard and Mich. Ave., Chicago.

Sewer Flushers (Automatic)

Merritt & Co., 1015 Ridge Ave., Phila., Pa.
Pacific Flush-Tank Co., The, 184 La Salle St., Chicago, Ill.

Sewer (Manhole Covers)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Mention the "Record" when writing.

Sewer Pipe

Buckeye Fire Clay Co., Uhrichsville, Ohio.
Clow & Sons, James B., Chicago, Ill.
Evans & Howard Fire Brick Co., St. Louis, Mo.
National Fire Proofing Co., 115 Adams St., Chicago, Ill.
National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.
N. Y. State Sewer Pipe Co., Rochester, N. Y.
Patton Clay Mfg. Co., Patton, Pa.
Robinson Clay Product Co. of New York, Flatiron Bldg., New York.
Trussed Concrete Steel Co., Detroit, Mich.
Warner Co., Charles, Wilmington, Del.

Shackles

Leschen & Sons Rope Co., A., St. Louis, Mo.

Shafting

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Shafting (Polished)

Scully Steel & Iron Co., Chicago, Ill.

Shearing Machines

Pels & Co., Henry, 66-68 Broad St., New York.
Scully Steel & Iron Co., Chicago, Ill.

Shears (Bar)

Pels & Co., Henry, 66-68 Broad St., New York.

Sheaves (Wire and Manhole Rope)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Sheaves for Wire Rope (Hoisting)

Broderick & Bascom Rope Co., St. Louis, Mo.
Carlin Machinery & Supply Co., "Inc.," 223 Sandusky St., North Side, Pittsburg, Pa.
Contractors Plant Mfg. Co., Buffalo, N. Y.
Dobbie Foundry & Mach. Co., Niagara Falls, N. Y.
Kiesler Co., The, 82 Pratt St., Chicago, Ill.
Leschen & Sons Rope Co., A., St. Louis, Mo.
Lidgerwood Mfg. Co., 96 Liberty St., N. Y.
Lombard Iron Works & Supply Co., Augusta, Ga.
Patterson Co., W. W., Pittsburg, Pa.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Webster Mfg. Co., 1075 W. 15th St., Chicago, Ill.; 88-90 Reade St., New York.

Sheet Iron Works

Graver Tank Works, Wm., E. Chicago, Ind.

Sheet Metal Work

Atlas Roofing Co., 115-117 Clark St., Newburgh, N. Y.
Bayer, J. C., Front and Market Sts., Portland, Ore.
Berger Mfg. Co., The, Canton, Ohio.
Graver Tank Works, Wm., E. Chicago, Ind.

Mention the "Record" when writing.

Irwin Mfg. Co., Thos. W., Rebecca and Craig
 Sts., North Side, Pittsburg, Pa.
 Lombard Iron Works & Supply Co., Augusta,
 Ga.
 Mesker & Bro., 421 S. 6th St., St. Louis, Mo.
 Mullins Co., W. H., 342 Franklin St., Salem, O.
 Raymond Bros. Impact Pulverizer Co., Chi-
 cago, Ill.
 Rogers-Shear Co., The, Warren, Pa.
 Sharon Boiler Works, Sharon, Pa.
 Sterling Wheelbarrow Co., Milwaukee, Wis.
 Union Iron Works, The, Hoboken, N. J.
 Van Noorden Co., E., 950 Mass. Ave., Boston.
 Whitehead & Kales Iron W'ks, Detroit, Mich.

Sheets (Galvanized)

Scully Steel & Iron Co., Chicago, Ill.

Sheets (Iron and Steel)

American Steel & Wire Co., Commercial Nat'l
 Bank Bldg., Chicago, Ill.
 Scully Steel & Iron Co., Chicago, Ill.

Sheets (Roofing)

Scully Steel & Iron Co., Chicago, Ill.

Sheet Steel (Hot-Rolled)

Scully Steel & Iron Co., Chicago, Ill.

Shoring and Underpinning

Eichleay, Jr., Co., John, Pittsburg, Pa.

Shovels and Picks (Hand)

Chicago House Wrecking Co., W. 35th and
 Iron Sts., Chicago, Ill.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 Perrin, Seamans & Co., 57 Oliver St., Boston.

Shovels (Steam)

Bucyrus Co., The, S. Milwaukee, Wis.
 Chandler, Geo. M., 42-9 N. Illinois St., In-
 dianapolis, Ind.
 Contractors Supply & Equipment Co., 305 Old
 Colony Bldg., Chicago, Ill.
 Hayward Co., The, 97 Cedar St., N. Y.
 Marion Steam Shovel Co., The, 640 W. Center
 St., Marion, Ohio.
 Mead-Morrison Mfg. Co., Cambridge, Mass.
 Shaw Co., Willis, 171 La Salle St., Chicago.
 Souther & Co., John, Boston, Mass.
 Thew Automatic Shovel Co., Lorain, Ohio.
 Troy Public Works Co., Utica, N. Y.

Shredders for Pulp Mills, Extract Plants, Back Roots and all Fi- brous Material

Raymond Bros. Impact Pulverizer Co., 143
 Laffin St., Chicago, Ill.
 Williams Patent Crusher & Pulverizer Co.,
 Chicago, Ill.

Shutters (Fireproof Rolling)

Wilson Mfg. Co., Jas. G., 3 W. 29th St., N. Y.

Mention the "Record" when writing.

Shutters (Rolling)

Wilson Mfg. Co., Jas. G., 3 W. 29th St., N. Y.

Shutters (Steel Rolling)

Wilson Mfg. Co., Jas. G., 3 W. 29th St., N. Y.

Siding (Sheet Steel)

Mesker & Bro., 421 S. 6th St., St. Louis, Mo.

Sidewalks

Kosmos Portland Cement Co., "Inc.," 614-616

Paul Jones Bldg., Louisville, Ky.

Rodgers Co., The, Monadnock Block, Chicago.

Signaling Apparatus

General Electric Co., Schenectady, N. Y.

Signaling Apparatus (Electric)

General Electric Co., Schenectady, N. Y.

Skips

Contractors Plant Mfg. Co., Buffalo, N. Y.

Cyclopean Iron Works Co., The, 402-404 Claremont Ave., Jersey City, N. J.

Dobbie Foundry & Mach. Co., Niagara Falls, N. Y.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Parker Hoist & Machine Co., 971 N. Francisco Ave., Chicago, Ill.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Ransome Concrete Machinery Co., Dunellen, N. J.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Traylor Engineering Co., 2 Rector St., N. Y.

Union Iron Works, The, Hoboken, N. J.

Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Youngstown Car Mfg. Co., Youngstown, O.

Skylight Ventilating Apparatus

American Skylight & Iron Works, 221 Randolph Ave., Jersey City, N. J.

Bayer, J. C., Front and Market Sts., Portland, Ore.

Berger Mfg. Co., The, Canton, Ohio.

Drouvé Co., G., Bridgeport, Conn.

Lupton's Sons Co., David, Philadelphia, Pa.

Mesker & Bro., 421 S. 6th St., St. Louis, Mo.

Mullins Co., W. H., 342 Franklin St., Salem, O.

Van Noorden Co., E., 950 Mass. Ave., Boston.

Skylights

Aberthaw Construction Co., 8 Beacon St., Boston, Mass.

American Skylight & Iron Works, 221 Randolph Ave., Jersey City, N. J.

Atlas Roofing Co., 115-117 Clark St., Newburgh, N. Y.

Badger & Sons Co., E. B., 63-75 Pitts St., Boston, Mass.

Bayer, J. C., Front and Market Sts., Portland, Ore.

Mention the "Record" when writing.

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.
Berger Mfg. Co., The, Canton, Ohio.
Brooks & Co., T. H., Cleveland, Ohio.
Burt Mfg. Co., Akron, Ohio.
Drouvé Co., G., Bridgeport, Conn.
Irwin Mfg. Co., Rebecca and Craig Sts., North Side, Pittsburg, Pa.
Lupton's Sons Co., David, Philadelphia, Pa.
Mesker & Bro., 421 S. 6th St., St. Louis, Mo.
Mullins Co., W. H., 342 Franklin St., Salem, O.
Schreiber & Sons Co., L., Cincinnati, Ohio.
Van Noorden Co., E., 950 Mass. Ave., Boston.

Slag

Warren-Ehret Co., 1204 Land Title Bldg., Philadelphia, Pa.

Slate (Workers and Dealers)

Clow & Sons, James B., Chicago, Ill.

Sleeves (Pipe)

Clow & Sons, James B., Chicago, Ill.

Sluice Gates

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Coffin Valve Co., Boston, Mass.

Coldwell-Wilcox Co., Newburgh, N. Y.

Pittsburgh Mfg. Co., Pittsburgh, Pa.

Smith Co., S. Morgan, York, Pa.

Smokestacks (Iron and Steel)

Graver Tank Works, Wm., East Chicago, Ind.

Smoke Stacks (Steel)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Sockets

Leschen & Sons Rope Co., A., St. Louis, Mo.

Speaking Tubes

International Electric & Engineering Co., 148 Chambers St., New York.

Ostrander & Co., W. R., 22 Dey St., N. Y.

Spikes (Railroad)

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Springs (Car)

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Springs (Steel)

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Sprinkling Carts

Baltimore Cooperage Co., Baltimore, Md.

Climax Road Machine Co., Marathon, N. Y.

Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.

Studebaker Bros. Mfg. Co., South Bend, Ind.

Mention the "Record" when writing.

Stairs (Spiral)

Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.
Mesker & Bro., 421 So. 6th St., St. Louis, Mo.
Raquette Foundry & Supply Co., Massena, New York.
Schreiber & Sons Co., L., Cincinnati, Ohio.
Whitehead & Kales Iron Works, Detroit, Mich.

Standpipes

East Jersey Pipe Co., 90 West St., New York.
Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Standpipes, Tanks, Towers

Aberthaw Construction Co., 8 Beacon St., Boston, Mass.
Bartlett & Snow Co., C. O., Cleveland, Ohio.
Bellefontaine Bridge & Steel Co., Bellefontaine, Ohio.
Carroll-Porter Boiler & Tank Co., Empire Bldg., Pittsburgh, Pa.
Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.
Clinton Bridge & Iron Works, Clinton, Ia.
Des Moines Bridge & Iron Works, Des Moines, Ia.
Graver Tank Works, Wm., East Chicago, Ind.
Kewanee Boiler Co., Kewanee, Ills.
Lombard Iron W'ks & Supply Co., Augusta, Ga.
Morris & Co., I. P., Philadelphia, Pa.
National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.
Petroleum Iron Works Co., Sharon, Pa.
Riter-Conley Mfg. Co., Pittsburgh, Pa.
Scaife & Sons Co., Wm. B., Pittsburgh, Pa.
Sharon Boiler Works, Sharon, Pa.
Struthers-Wells Co., Warren, Pa.
Tippett & Wood, Phillipsburg, N. J.
U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.
Virginia Bridge & Iron Co., Roanoke, Va.
Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.
Whitehead & Kales Iron Works, Detroit, Mich.
Wood & Co., R. D., 400 Chestnut St., Philadelphia, Pa.

Steam Power Plants

Pope, Wm. A., 80 Lake St., Chicago, Ill.

Steam Specialties

American District Steam Co., Lockport, N.Y.
Johns-Manville Co., H. W., 100 William St., New York.
Lunkenheimer Co., Cincinnati, Ohio.
Manning, Maxwell & Moore, 85-89 Liberty St., New York.
Walworth Mfg., Co., Boston, Mass.

Steamboat Ratchets

Patterson Co., W. W., Pittsburgh, Pa.

Mention the "Record" when writing.

Steel Bars for Concrete Reinforcement

Rogers-Shear Co., The, Warren Pa.

Steel Buildings

Decatur Bridge Co., Decatur, Ill.

Eichleay, Jr., Co., John, Pittsburg, Pa.

Steel Construction

Riverside Bridge, Co., Martins Ferry, Ohio.

Steel Plate Construction

Bellefontaine Bridge & Steel Co., Bellefontaine, Ohio.

Belmont Iron Works, 22d St. & Washington Ave., Philadelphia, Pa.

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.

Clinton Bridge & Iron Works, Clinton, Ia.

Decatur Bridge Co., Decatur, Ill.

Graver Tank Works, Wm., East Chicago, Ind.

Insley Iron Works, Indianapolis, Ind.

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Kenwood Bridge Co., 1416 First Nat'l Bank Bldg., Chicago, Ill.

McNeil & Bro. Co., James, Pittsburg, Pa.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Petroleum Iron Works Co., Sharon, Pa.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Scaife & Sons Co., Wm. B., Pittsburg, Pa.

Struthers-Wells Co., Warren, Pa.

Tippett & Wood, Phillipsburg, N. J.

Union Iron Works The, Hoboken, N. J.

Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.

Whitehead & Kales Iron Works, Detroit, Mich.

Youngstown Car Mfg. Co., The, Youngstown, Ohio.

Steel Ribs and Lagging

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Steel Substructures for Tanks

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Steel (Tape Line)

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Stokers (Mechanical)

Pabcock & Wilcox Co., 85 Liberty St., N. Y.

Cummer & Sons Co., F. D., 413 Arcade, Cleveland, Ohio.

Green Engineering Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Murphy Iron Works, Detroit, Mich.

Westinghouse Machine Co., Pittsburg, Pa.

Stone (Broken and Quarried)

Chandler, Geo. M., 42-9 North Illinois St., Indianapolis, Ind.

Mention the "Record" when writing.

Upton, F. R., 9 Clinton St., Newark, N. J.
Warner Co., Charles, Wilmington, Del.

Stone Crusher Parts and Repairs

Bacon, Earle C., Havemeyer Bldg., N. Y.
Climax Road Machine Co., Marathon, N. Y.
Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.
Pennsylvania Steel Co., The, Philadelphia, Pa.
Pittsburg Tubular Steel Whiffletree Co., Pitts-
burg, Pa.
Power & Mining Machinery Co., Cudahy, Wis.
Sturtevant Mill Co., Harrison Sq., Boston.
Traylor Engineering Co., 2 Rector St., N. Y.

Stone Dressing Machines

Ingersoll-Rand Co., 11 B'way, New York.

Straightening Machines (Angle, Beam and Channel)

Scully Steel & Iron Co., Chicago, Ill.

Strainers (Quick-Cleaning)

Emerson Steam Pump Co., The, Alexandria,
Va.

Strainers (Quick-Cleaning)

(For Suction or Intake Pipes)

Emerson Steam Pump Co., The, Alexandria,
Va.

Strainers (Well)

American Injector Co., Congress & 7th Sts.,
Detroit, Mich.
American Well Works, Aurora, Ill.
Douglas, W. & B., Middletown, Conn.
U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.

Street-Cleaning Implements, Ma- chinery and Snow Plows

Climax Road Machine Co., Marathon, N. Y.
Monarch Road Roller Co., Groton, Tompkins
Co., N. Y.
Studebaker Bros. Mfg. Co., South Bend., Ind.

Street Sprinklers

Studebaker Bros. Mfg. Co., South Bend., Ind.

Structural and Ornamental Iron Works

American Bridge Co., 42 B'way, New York.
Bellefontaine Bridge & Steel Co., Bellefon-
taine, Ohio.
Belmont Iron Works, 22d St. & Washington
Ave., Philadelphia, Pa.
Berlin Construction Co., Berlin, Conn.
Boston Bridge Works, 47 Winter St., Bos-
ton, Mass.
Brooks & Co., T. H., Cleveland, Ohio.
Chicago Bridge & Iron Works, Washington
Heights Station, Chicago, Ill.
Chicago House Wrecking Co., West 35th &
Iron Sts., Chicago, Ill.

Mention the "Record" when writing.

Cleveland City Forge & Iron Co., Cleveland, Ohio.

Clinton Bridge & Iron Works, Clinton, Ia.

Decatur Bridge Co., Decatur, Ill.

Douglas, Geo. B., 29 B'way, New York.

Eastern Bridge & Structural Co., Worcester, Mass.

Insley Iron Works, Indianapolis, Ind.

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Kenwood Bridge Co., 1416 First Nat'l Bank Bldg., Chicago, Ill.

Mesker & Bro., 421 So. 6th St., St. Louis, Mo.

Noelke-Richards Iron Works, Indianapolis, Ind.

Pennsylvania Steel Co., The, Phila., Pa.

Schreiber & Sons Co., L., Cincinnati, Ohio.

Snare & Triest Co., The, 143 Liberty St., N. Y.

Virginia Bridge & Iron Co., Roanoke, Va.

Whitehead & Kales Iron Works, Detroit, Mich.

Structural Iron and Steel Works

Burger Iron Company, The, Akron, Ohio.

Structural Iron Work

Riverside Bridge Co., Martins Ferry, Ohio.

Structural Material

Scully Steel & Iron Co., Chicago, Ill.

Structural Steel

Baltimore Bridge Co., Bush St. and B. & O. R. R., Baltimore, Md.

Brooks & Co., T. H., Cleveland, Ohio.

Douglas, Geo. B., 29 B'way, New York.

Eichleay, Jr., Co., John, Pittsburg, Pa.

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Riverside Bridge Co., Martins Ferry, Ohio.

Standard Concrete Steel Co., 31st & 32d Sts., East River, New York.

Terry & Tench Co., "Inc.," 131st St. & Lexington Ave., New York.

Sulphate of Iron

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Superheaters

Babcock & Wilcox Co., 85 Liberty St., N. Y.

Power Specialty Co., 111 B'way, New York.

Supporter and Spacer (Concrete-Steel)

Miller & Co., O. J., Victoria Bldg., St. Louis, Mo.

Supporter and Spacer (for Concrete Bars)

Miller & Co., O. J., Victoria Bldg., St. Louis, Mo.

Mention the "Record" when writing.

Surveyor Supplies (See Engineers' and Surveyors' Instruments and Supplies)

Architects & Engineers Supply Co., 1010 Grand Ave., Kansas City, Mo.

Surveys (Water Supply)

Presler Prospecting & Engineering Co., Cincinnati, Ohio.

Swinging Gears

Dake Engine Co., Grand Haven, Mich.

Switchboards

C. & C. Electric Co., Garwood, N. J.

Switch Stands and Switches (See Frogs)

Indianapolis Switch & Frog Co., Springfield, Ohio.

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Pennsylvania Steel Co., The, Phila., Pa.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Wonham-Magor Engineering Works, 29 B'way, New York.

Switches (Overhead)

Reading Crane & Hoist Works, Reading, Pa.

Tank Valves

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Tanks and Towers

Baltimore Cooperage Co., Baltimore, Md.

Bellefontaine Bridge & Steel Co., Bellefontaine, Ohio.

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.

Chandler, Geo. M., 42-9 West Illinois St., Indianapolis, Ind.

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.

Clinton Bridge & Iron Works, Clinton, Ia.

Flint & Walling Mfg. Co., Kendallville, Ind.

Graver Tank Works, Wm., East Chicago, Ind.

Kenwood Bridge Co., 1416 First Nat'l Bank Bldg., Chicago, Ill.

Kewanee Boiler Co., Kewanee, Ill.

Lombard Iron W'ks & Supply Co., Augusta, Ga.

Memphis Bridge Co., Memphis, Tenn.

Petroleum Iron Works, Co., Sharon, Pa.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Sharon Boiler Works, Sharon, Pa.

Struthers-Wells Co., Warren, Pa.

Tippett & Wood, Phillipsburg, N. J.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Virginia Bridge & Iron Co., Roanoke, Va.

Mention the "Record" when writing.

Wood & Co., R. D., 400 Chestnut St., Phila., Pa.

Tanks (Air Compressors)

Allis-Chalmers Co., Milwaukee, Wis.
American Well Works, Aurora, Ill.
Bury Compressor Co., Erie, Pa.
Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.
Chicago House Wrecking Co., West 35th & Iron Sts., Chicago, Ill.
East Jersey Pipe Co., 90 West St., N. Y.
Graver Tank Works, Wm., East Chicago, Ind.
Ingersoll-Rand Co., 11 B'way, New York.
Janney, Steinmetz & Co., Philadelphia, Pa.
Kewanee Boiler Co., Kewanee, Ill.
McKiernan Drill Co., 115 B'way, New York.
McNeil & Bro. Co., James, Pittsburg, Pa.
Northern Engineering Works, Detroit, Mich.
Petroleum Iron Works Co., Sharon, Pa.
Riter-Conley Mfg. Co., Pittsburg, Pa.
Sharon Boiler Works, Sharon, Pa.
Shaw Co., Willis, 171 La Salle St., Chicago.
Struthers-Wells Co., Warren, Pa.

Tanks (Cement)

Aberthaw Construction Co., 8 Beacon St., Boston, Mass.
East Jersey Pipe Co., 90 West St., N. Y.
Graver Tank Works, Wm., East Chicago, Ind.
Rodgers Company, The, Monadnock Block, Chicago, Ill.
Sharon Boiler Works, Sharon, Pa.
Struthers-Wells Co., Warren, Pa.
Trussed Concrete Steel Co., Detroit, Mich.
Winslow Co., E. J., 138 Jackson Boulevard, Chicago, Ill.

Tanks (Condenser)

Allis-Chalmers Co., Milwaukee, Wis.
Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.
East Jersey Pipe Co., 90 West St., New York.
Graver Tank Works, Wm., East Chicago, Ind.
Kewanee Boiler Co., Kewanee, Ills.
Petroleum Iron Works Co., Sharon, Pa.
Sharon Boiler Works, Sharon, Pa.
Struthers-Wells Company, Warren, Pa.

Tanks (Creosoting)

Graver Tank Works, Wm., East Chicago, Ind.

Tanks (Cyanide)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Tanks (Elevator)

Graver Tank Works, Wm., East Chicago, Ind.

Tanks (Flush)

Kewanee Boiler Co., Kewanee, Ill.
Pacific Flush-Tank Co., 184 La Salle St., Chicago, Ill.
Sharon Boiler Works, Sharon, Pa.

Mention the "Record" when writing.

Tanks (Galvanized Iron)

Graver Tank Works, Wm., E. Chicago, Ind.

Tanks (Gas and Oil)

American Well Works, Aurora, Ill.

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.

Chicago House Wrecking Co., W. 35th and Iron Sts., Chicago, Ill.

Graver Tank Works, Wm., E. Chicago, Ind.

Janney, Steinmetz & Co., Philadelphia, Pa.

McNeil & Bro. Co., James, Pittsburg, Pa.

Petroleum Iron Works Co., Sharon, Pa.

Power & Mining Machinery Co., Cudahy, W.s.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Sharon Boiler Works, Sharon, Pa.

Struthers-Wells Co., Warren, Pa.

Tippett & Wood, Phillipsburg, N. J.

Wood & Co., R. D., 400 Chestnut St., Phila.

Tanks (Grain Storage)

Graver Tank Works, Wm., E. Chicago, Ind.

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Tanks (Ice)

Bayer, J. C., Front and Market Sts., Portland, Ore.

Tanks (Iron and Steel)

Graver Tank Works, Wm., E. Chicago, Ind.

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Tanks (Seamless Steel)

Janney, Steinmetz & Co., Philadelphia, Pa.

Tanks (Linseed Oil)

Graver Tank Works, Wm., E. Chicago, Ind.

Tanks (Oil)

Graver Tank Works, Wm., E. Chicago, Ind.

Tanks (Septic)

Bayer, J. C., Front and Market Sts., Portland, Ore.

Cameron Septic Tank Co., 812-813 Monadnock Block, Chicago, Ill.

Pacific Flush-Tank Co., 184 La Salle St., Chicago, Ill.

Sharon Boiler Works, Sharon, Pa.

Tank Spouts and Fixtures

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Tanks (Steel)

Graver Tank Works, Wm., E. Chicago, Ind.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Tanks (Water)

Abenague Machine Works, Westminster Station, Vt.

American Well Works, Aurora, Ill.

Baltimore Cooperage Co., Baltimore, Md.

Mention the "Record" when writing.

Bayer, J. C., Front and Market Sts., Portland, Ore.
 Bellefontaine Bridge & Steel Co., Bellefontaine, Ohio.
 Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.
 Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.
 Clinton Bridge & Iron Works, Clinton, Ia.
 Flint & Walling Mfg. Co., Kendallville, Ind.
 Graver Tank Works, Wm., E. Chicago, Ind.
 Kewanee Boiler Co., Kewanee, Ill.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 McNeil & Bro. Co., James, Pittsburg, Pa.
 Memphis Bridge Co., Memphis, Tenn.
 National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.
 Northern Engineering Works, Detroit, Mich.
 Petroleum Iron Works Co., Sharon, Pa.
 Pittsburg Filter Mfg. Co., Farmers Bank Bldg., Pittsburg, Pa.
 Riter-Conley Mfg. Co., Pittsburg, Pa.
 Rodgers Co., The, Monadnock Block, Chicago.
 Sharon Boiler Works, Sharon, Pa.
 Struthers-Wells Co., Warren, Pa.
 Tippet & Wood, Phillipsburg, N. J.
 U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.
 Walsh's Holyoke Steam Boiler Works, Holyoke, Mass.
 Wood & Co., R. D., 400 Chestnut St., Phila.

Tanks (Wooden)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Tapes (Steel) (See Engineers' and Surveyors' Instruments)

Ainsworth & Sons, Wm., Denver, Col.
 Chicago Steel Tape Co., 6233 Cottage Grove Ave., Chicago, Ill.
 Lufkin Rule Co., The, Saginaw, Mich.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Seelig & Son, R., 170 E. Madison St., Chicago.
 Wiebusch & Hilger, "Ltd.," 9 Murray St., New York.
 Winslow Co., E. J., 138 Jackson Boulevard, Chicago, Ill.

Tapes (Wind-Up Metallic)

Wiebusch & Hilger, "Ltd.," 9 Murray St., New York.

Tapping Machines

American District Steam Co., Lockport, N. Y.
 Clow & Sons, James B., Chicago, Ill.
 Smith Mfg. Co., A. P., Passaic Ave., Newark, N. J.

Mention the "Record" when writing.

Tar

Barrett Mfg. Co., New York and Chicago.

Technical Books (See Books, Engineering and Technical)

McGraw Publishing Co., 239 W. 39th St., N. Y.
Van Nostrand & Co., D., 23 Murray St., N. Y.
Wiley & Sons, John, 43-45 E. 19th St., N. Y.

Telegraph and Telephone Pole Equipment

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Telephone and Telegraph Wire

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Terra Cotta (Architectural)

Bayer, J. C., Front and Market Sts., Portland, Ore.

Terra Cotta (Fireproofing)

Bayer, J. C., Front and Market Sts., Portland, Ore.

National Fire Proofing Co., 115 Adams St., Chicago, Ill.

Patton Clay Mfg. Co., Patton, Pa.

Test Borings

American Test Boring & Drilling Co., 32 B'way, New York.

Presler Prospecting & Engineering Co., Cincinnati, Ohio.

Testing Laboratories (Chemists', Etc.)

Conard, W. R., 1004 High St., Burlington, N. J.

Dow & Smith, 24-26 E. 21st St., New York.

Gulick-Henderson & Co., 439 Third Ave., Pittsburgh, Pa.

Hallet, Nelson A., Ashburton Place, Boston.

Hunt & Co., Robert W., Monongahela Bank Bldg., Pittsburgh, Pa.

Lehigh Valley Testing Laboratory, Pittsburgh, Pa.

Love, E. G., 122 Bowery, New York.

Lunkenheimer Co., Cincinnati, Ohio.

McKenna, Chas. F., Hudson Terminal Bldg., New York.

Meade Testing Laboratories, Nazareth, Pa.

Michigan Technical Laboratory, 58 Lafayette Ave., Detroit, Mich.

Pittsburg Testing Laboratory, 325 Water St., Pittsburg, Pa.

Thimble (Wire Rope)

Leschen & Sons Rope Co., A., St. Louis, Mo.

Ties (Steel and Wood)

Douglas, Geo. B., 29 B'way, New York.

Gulfport Creosoting Co., Gulfport, Miss.

Mention the "Record" when writing.

Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.

Pennsylvania Steel Co., The, Philadelphia, Pa.

Ties (Steel and Wood Creosoted)

Barber Asphalt Paving Co., Maurer, N. J.

Tile

Bayer, J. C., Front and Market Sts., Port-
land, Ore.

Evens & Howard Fire Brick Co., St. Louis,
Mo.

N. Y. State Sewer Pipe Co., Rochester, N. Y.

Warren-Ehret Co., 1204 Land Title Bldg., Phil-
adelphia, Pa.

Tile (Hollow, Terra Cotta)

National Fire Proofing Co., 115 Adams St.,
Chicago, Ill.

Tile (Partition)

National Fire Proofing Co., 115 Adams St.,
Chicago, Ill.

Tiller Rope

Leschen & Sons Rope Co., A., St. Louis, Mo.

Tipples and Bunkers

Belmont Iron Works, 22d St. and Washington
Ave., Philadelphia, Pa.

Insley Iron Works, Indianapolis, Ind.

Webster Mfg. Co., 1075 W. 15th St., Chicago,
Ill.; 88-90 Reade St., New York.

Tipples (Mine)

Minneapolis Steel & Machinery Co., Minne-
apolis, Minn.

**Tools and Supplies (Factory, Rail-
way, Etc.)**

Scully Steel & Iron Co., Chicago, Ill.

Tools (Calking)

Ingersoll-Rand Co., 11 B'way, New York.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Union Iron Works, The, Hoboken, N. J.

Tools (Contractors', Etc.)

Carlin Machinery & Supply Co., "Inc.," 223
Sandusky St., North Side, Pittsburg, Pa.

Century Cement Machine Co., 186 W. Main
St., Rochester, N. Y.

Chandler, Geo. M., 42-9 N. Illinois St., In-
dianapolis, Ind.

Contractors Supply & Equipment Co., 305 Old
Colony Bldg., Chicago, Ill.

Indiana Road Machine Co., Fort Wayne, Ind.

International Electric & Engineering Co., 143
Chambers St., New York.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Patterson Co., W. W., Pittsburg, Pa.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Tow Lines (Manila)

American Mfg. Co., 65 Wall St., New York.

Mention the "Record" when writing.

Towers and Tanks (Water)

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Towers (Cement Cooling)

Rodgers Co., The, Monadnock Block, Chicago.

Towers (Steel)

Eichleay, Jr., Co., John, Pittsburg, Pa.

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Towers (Water Cooling)

Baltimore Cooperage Co., Baltimore, Md.

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.

Graver Tank Works, Wm., E. Chicago, Ind.

Riter-Conley Mfg. Co., Pittsburg, Pa.

Struthers-Wells Co., Warren, Pa.

Williamson Bros. Co., Aramingo Ave. and Cumberland St., Philadelphia, Pa.

Tracing Cloth

Kolesch & Co., 138 Fulton St., New York.

Track (Cast-Iron Plate)

Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Track Drills

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Track Gages

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Track-Laying Cars

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Track Levels

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Track Tools

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Tracks, Portable (See Railway Track Specialties)

Indianapolis Switch & Frog Co., Springfield, Ohio.

Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.

Northern Engineering Works, Detroit, Mich.

Pennsylvania Steel Co., The, Philadelphia, Pa.

Union Iron Works, The, Hoboken, N. J.

Wiener Co., Ernst, 168 Morris Bldg., N. Y.

Wonham-Magor Engineering Works, 29 B'way, New York.

Youngstown Car Mfg. Co., Youngstown, O.

Traction Ditching Machines

Austin Drainage Excavator Co., F. C., Railway Exchange, Chicago, Ill.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Mention the "Record" when writing.

Marion Steam Shovel Co., The, 640 W. Center St., Marion, Ohio.

Municipal Engineer'g & Contracting Co., Jackson Boulevard and Mich. Ave., Chicago.

Parsons Co., G. W., 306 Observatory Bldg., Des Moines, Ia.

Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.

Shaw Co., Willis, 171 La Salle St., Chicago.

Thew Automatic Shovel Co., Lorain, Ohio.

Tramways (Aerial Wire Rope)

Leschen & Sons Rope Co., A., St. Louis, Mo.

Tramways (Overhead)

Reading Crane & Hoist Works, Reading, Pa.

Tramways (Wire Rope)

American Steel & Wire Co., Commercial Nat'l Bank Bldg., Chicago, Ill.

Broderick & Bascom Rope Co., St. Louis, Mo.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Leschen & Sons Rope Co., A., St. Louis, Mo.

New York Cableway & Engineering Co., 2 Rector St., New York.

Roebbling's Sons Co., John A., Trenton, N. J.

Youngstown Car Mfg. Co., Youngstown, O.

Transits

Ainsworth & Sons, Wm., Denver, Col.

Architects & Engineers Supply Co., 1010 Grand Ave., Kansas City, Mo.

Seelig & Son, R., 170 E. Madison St., Chicago.

Transmission Rope

American Mfg. Co., 65 Wall St., New York.

Transom Operators

Lord & Burnham Co., Irvington-on-Hudson, N. Y.

Traps (Steam)

American District Steam Co., Lockport, N. Y.

Clow & Sons, James B., Chicago, Ill.

Sturtevant Co., B. F., Hyde Park, Mass.

Tree Guards (Iron)

Anchor Post Iron Works, 147 Nassau St., N.Y.

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.

Darby & Sons Co., "Inc.," Edw., Phila., Pa.

Stewart Iron Works Co., The, Cincinnati, O.

Trench Braces

Cleveland City Forge & Iron Co., Cleveland, O.

Clow & Sons, James B., Chicago, Ill.

Dunn Mfg. Co., Pittsburg, Pa.

Kalamazoo Foundry & Machine Co., Kalamazoo, Mich.

McCoy Co., Henry J., 65-67 Dey St., N. Y.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Mention the "Record" when writing.

Trench Excavating Machinery

Carson Trench Machine Co., 16 Dorrance St., Boston, Mass.
Edson Mfg. Co., 255-257 Atlantic Ave., Boston.
Hayward Co., The, 97 Cedar St., New York.
Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.
Marion Steam Shovel Co., 640 W. Center St., Marion, Ohio.
Municipal Engineer's & Contracting Co., Jackson Boulevard and Mich. Ave., Chicago.
Parsons Co., G. W., 306 Observatory Bldg., Des Moines, Ia.
Shaw Co., Willis, 171 La Salle St., Chicago.

Trolleys

Chisholm & Moore Mfg. Co., Cleveland, O.
Dobbie Foundry & Mach. Co., Niagara Falls, N. Y.
General Electric Co., Schenectady, N. Y.
Maris Bros., 56th and Gray's Ave., Phila., Pa.
Northern Engineering Works, Detroit, Mich.
Reading Crane & Hoist Works, Reading, Pa.
Union Iron Works, The, Hoboken, N. J.
Whitehead & Kales Iron W'ks, Detroit, Mich.

Trolleys (I-Beam)

Scully Steel & Iron Co., Chicago, Ill.

Trowels (Masons')

Wiebusch & Hilger, "Ltd.," 9 Murray St., N. Y.

Tube Mills

Smidth & Co., F. L., 39-41 Cortlandt St., N. Y.

Tubes (Boiler)

Carroll-Porter Boiler & Tank Co., - Empire Bldg., Pittsburg, Pa.
Scully Steel & Iron Co., Chicago, Ill.

Tunnels and Subways

Jackson, George W., "Inc.," 169-179 W. Jackson Boulevard, Chicago, Ill.

Turbine Pumps

American Well Works, Aurora, Ill.
Dayton Hydraulic Machinery Co., Dayton, O.
De Laval Steam Turbine Co., Trenton, N. J.
D'Olier Engineering Co., 121 S. 11th St., Phila.
Erie Pump & Engine Co., Erie, Pa.
Lawrence Machine Co., Lawrence, Mass.
Watson-Stillman Co., The, 26 Cortlandt St., New York.

Turbine Waterwheels

Lombard Iron Works & Supply Co., Augusta, Ga.
Smith Co., S. Morgan, York, Pa.
Watson-Stillman Co., The, 26 Cortlandt St., New York.

Turbines ("Curtis" Steam)

General Electric Co., Schenectady, N. Y.

Mention the "Record" when writing.

Turbines (Hydraulic)

Allis-Chalmers Co., Milwaukee, Wis.
Leffel & Co., James, Springfield, Ohio.
Lombard Iron Works & Supply Co., Augusta, Ga.
Smith Co., S. Morgan, York, Pa.
Trump Mfg. Co., 114 N. Greenmount Ave., Springfield, Ohio.
Watson-Stillman Co., The, 26 Cortlandt St., New York.

Turbines (Steam)

Allis-Chalmers Co., Milwaukee, Wis.
De Laval Steam Turbine Co., Trenton, N. J.
D'Olier Engineering Co., 121 S. 11th St., Phila.
General Electric Co., Schenectady, N. Y.
Morris & Co., I. P., Philadelphia, Pa.
Sturtevant Co., B. F., Hyde Park, Mass.
Westinghouse Machine Co., Pittsburg, Pa.

Turnbuckles

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.
Broderick & Bascom Rope Co., St. Louis, Mo.
Cleveland City Forge & Iron Co., Cleveland, Ohio.
International Electric & Engineering Co., 148 Chambers St., New York.
Leschen & Sons Rope Co., A., St. Louis, Mo.
Pittsburgh Mfg. Co., Pittsburgh, Pa.

Turntables

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.
Boston Bridge Works, 47 Winter St., Boston.
Brown Hoisting Machinery Co., The, 4403 St. Clair Ave., Cleveland, Ohio.
Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.
Indianapolis Switch & Frog Co., Springfie'd, O.
Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.
Northern Engineering Works, Detroit, Mich.
Union Iron Works, The, Hoboken, N. J.
Virginia Bridge & Iron Co., Roanoke, Va.
Whitehead & Kales Iron W'ks, Detroit, Mich.
Wiener Co., Ernst, 168 Morris Bldg., N. Y.
Wonham-Magor Engineering Works, 29 B'way, New York.

Turntables for Industrial Railways

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Turntables (Overhead)

Reading Crane & Hoist Works, Reading, Pa.

Twine (Jute)

American Mfg. Co., 65 Wall St., New York.

Twisted Steel

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.

Mention the "Record" when writing.

Douglas, Geo. B., 29 B'way, New York.
 General Fireproofing Co., The, Youngstown, O.
 Hough Co., William B., 1336-7 Monadnock
 Block, Chicago, Ill.
 Hudson Structural Steel Co., 136th St. and
 Southern Boulevard, New York.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 Maxwell Concrete Steel Co., 516 Penobscot
 Bldg., Detroit, Mich.
 Portland Iron & Steel Co., Board of Trade
 Bldg., Boston, Mass.
 Ransome Concrete Machinery Co., Dunellen,
 N. J.
 Rodgers Co., The, Monadnock Block, Chicago.
 Rogers-Shear Co., The, Warren, Pa.

Valve Boxes

Coffin Valve Co., Boston, Mass.

Valves

Scully Steel & Iron Co., Chicago, Ill.

Valves (Air)

American District Steam Co., Lockport, N. Y.
 American Injector Co., Congress and 7th Sts.,
 Detroit, Mich.
 American Well Works, Aurora, Ill.
 Chapman Valve Mfg. Co., Indian Orchard,
 Mass.
 Clow & Sons, James B., Chicago, Ill.
 Coffin Valve Co., Boston, Mass.
 Ingersoll-Rand Co., 11 B'way, New York.
 Merritt & Co., 1015 Ridge Ave., Phila., Pa.
 Simplex Valve & Meter Co., 112 N. Broad St.,
 Philadelphia, Pa.
 U. S. Wind Engine & Pump Co., 280 Water
 St., Batavia, Ill.

Valves (Blow-Off)

Chapman Valve Mfg. Co., Indian Orchard,
 Mass.

Valves (Butterfly)

Coffin Valve Co., Boston, Mass.

Valves (Check)

American District Steam Co., Lockport, N. Y.
 American Injector Co., Congress and 7th Sts.,
 Detroit, Mich.
 American Well Works, Aurora, Ill.
 Chapman Valve Mfg. Co., Indian Orchard,
 Mass.
 Clow & Sons, James B., Chicago, Ill.
 Coffin Valve Co., Boston, Mass.
 Coldwell-Wilcox Co., Newburgh, N. Y.
 Deming Co., The, Salem, Ohio.
 Douglas, W. & B., Middletown, Conn.
 Lunkenheimer Co., Cincinnati, Ohio.
 Manning, Maxwell & Moore, 85-87 Liberty St.,
 New York.
 Powell Co., Wm., Cincinnati, Ohio.

Mention the "Record" when writing.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.
Watson-Stillman Co., The, 26 Cortlandt St., New York.
Wetherill Bros. Machine Co., Chester, Pa.
Wood & Co., R. D., 400 Chestnut St., Phila.

Valves (Foot)

American District Steam Co., Lockport, N. Y.
American Injector Co., Congress and 7th Sts., Detroit, Mich.
American Well Works, Aurora, Ill.
Clow & Sons, James B., Chicago, Ill.
Coffin Valve Co., Boston, Mass.
Dayton Hydraulic Machinery Co., Dayton, O.
Deming Co., The, Salem, Ohio.
Douglas, W. & B., Middletown, Conn.
Emerson Steam Pump Co., The, Alexandria, Va.
Lawrence Machine Co., Lawrence, Mass.
Morris Machine Works, Baldwinsville, N. Y.
Perrin, Seamans & Co., 57 Oliver St., Boston.
U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.
Wood & Co., R. D., 400 Chestnut St., Phila.

Valves (Gate)

American District Steam Co., Lockport, N. Y.
American Injector Co., Congress and 7th Sts., Detroit, Mich.
American Well Works, Aurora, Ill.
Chapman Valve Mfg. Co., Indian Orchard, Mass.
Clow & Sons, James B., Chicago, Ill.
Coffin Valve Co., Boston, Mass.
Coldwell-Wilcox Co., Newburgh, N. Y.
Pittsburgh Mfg. Co., Pittsburgh, Pa.
Powell Co., Wm., Cincinnati, Ohio.
U. S. Cast Iron Pipe & Foundry Co., 71 B'way, New York.
U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.
Wood & Co., R. D., 400 Chestnut St., Phila.

Valves (Globe and Angle)

American District Steam Co., Lockport, N. Y.
American Injector Co., Congress and 7th Sts., Detroit, Mich.
American Well Works, Aurora, Ill.
Chapman Valve Mfg. Co., Indian Orchard, Mass.
Chicago House Wrecking Co., W. 35th and Iron Sts., Chicago, Ill.
Clow & Sons, James B., Chicago, Ill.
Coffin Valve Co., Boston, Mass.
Coldwell-Wilcox Co., Newburgh, N. Y.
Lombard Iron Works & Supply Co., Augusta, Ga.
Manning, Maxwell & Moore, 85-89 Liberty St., New York.
Powell Co., Wm., Cincinnati, Ohio.

Mention the "Record" when writing.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Valves (High-Pressure)

American District Steam Co., Lockport, N. Y.
Chapman Valve Mfg. Co., Indian Orchard, Mass.

Clow & Sons, James B., Chicago, Ill.

Coffin Valve Co., Boston, Mass.

Manning, Maxwell & Moore, 85-89 Liberty St., New York.

Powell Co., Wm., Cincinnati, Ohio.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Wood & Co., R. D., 400 Chestnut St., Phila.

Valves (Pump)

American Well Works, Aurora, Ill.

Deming Co., The, Salem, Ohio.

Douglas, W. & B., Middletown, Conn.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Valves (Regulating)

Simplex Valve & Meter Co., 112 N. Broad St., Philadelphia, Pa.

Valves (Safety)

Ashton Valve Co., The, Boston, Mass.

Clow & Sons, James B., Chicago, Ill.

Lunkenheimer Co., Cincinnati, Ohio.

Manning, Maxwell & Moore, 85-89 Liberty St., New York.

Perrin, Seamans & Co., 57 Oliver St., Boston.

Powell Co., Wm., Cincinnati, Ohio.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Valves (Sewerage)

Coffin Valve Co., Boston, Mass.

Valves (Steam)

American District Steam Co., Lockport, N. Y.

American Injector Co., Congress and 7th Sts., Detroit, Mich.

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Clow & Sons, James B., Chicago, Ill.

Coffin Valve Co., Boston, Mass.

Coldwell-Wilcox Co., Newburgh, N. Y.

Lunkenheimer Co., Cincinnati, Ohio.

Manning, Maxwell & Moore, 85-89 Liberty St., New York.

Powell Co., Wm., Cincinnati, Ohio.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Walworth Mfg. Co., Boston, Mass.

Mention the "Record" when writing.

Valves (Throttle)

Powell Co., Wm., Cincinnati, Ohio.

Valves (Tubular)

American Well Works, Aurora, Ill.

Valves (Water)

American Injector Co., Congress and 7th Sts., Detroit, Mich.

American Well Works, Aurora, Ill.

Chapman Valve Mfg. Co., Indian Orchard, Mass.

Clow & Sons, James B., Chicago, Ill.

Coffin Valve Co., Boston, Mass.

Coldwell, Wilcox Co., Newburgh, N. Y.

Dimmick Pipe Co., Birmingham, Ala.

Fox & Co., John, 253 B'way, New York.

Lunkenheimer Co., Cincinnati, Ohio.

Manning, Maxwell & Moore, 85-89 Liberty St., New York.

National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.

Norwood Engineering Co., Florence, Mass.

Pittsburgh Mfg. Co., Pittsburgh, Pa.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Walworth Mfg. Co., Boston, Mass.

Watson-Stillman Co., The, 26 Cortlandt St., New York.

Wood Co., R. D., 400 Chestnut St., Phila., Pa.

Valves (Water Relief)

Ashton Valve Co., The, Boston, Mass.

Clow & Sons, James B., Chicago, Ill.

Lunkenheimer Co., Cincinnati, Ohio.

Manning, Maxwell & Moore, 85-89 Liberty St., New York.

Powell Co., Wm., Cincinnati, Ohio.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Wood & Co., R. D., 400 Chestnut St., Phila.

Vases (Iron Reservoir)

Stewart Iron Works Co., The, Cincinnati, O.

Vault and Sidewalk Lights

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

Vault Light Construction

Belmont Iron Works, 22d St. and Washington Ave., Philadelphia, Pa.

Berger Mfg. Co., The, Canton, Ohio.

Ventilating Apparatus

American Blower Co., Detroit, Mich.

American Skylight & Iron Works, 221 Randolph Ave., Jersey City, N. J.

Drouvé Co., G., Bridgeport, Conn.

Green Fuel Economizer Co., Matteawan, N. Y.

Lupton's Sons Co., David, Philadelphia, Pa.

Mention the "Record" when writing.

New York Blower Co., Chicago, Ill.
Sturtevant Co., B. F., Hyde Park, Mass.

Ventilating Apparatus (Sash Operating)

Badger Ventilator Co., Boston, Mass.
Lord & Burnham Co., Irvington-on-Hudson,
N. Y.

Ventilating Machinery (Sash Operating)

Hitchings & Co., 1170 B'way, New York.

Ventilating Ridging

Atlas Roofing Co., 115-117 Clark St., Newburgh,
N. Y.

Ventilators

American Skylight & Iron Works, 221 Randolph Ave., Jersey City, N. J.

Badger Ventilator Co., Boston, Mass.

Badger & Sons Co., E. B., 63-75 Pitt St., Boston, Mass.

Bayer, J. C., Front and Market Sts., Portland, Ore.

Berger Mfg. Co., The, Canton, Ohio.

Burt Mfg. Co., Akron, Ohio.

Clow & Sons, James B., Chicago, Ill.

Drouvé Co., G., Bridgeport, Conn.

International Electric & Engineering Co., 148 Chambers St., New York.

Irwin Mfg. Co., Thos. W., Rebecca and Craig Sts., North Side, Pittsburg, Pa.

Lupton's Sons Co., David, Philadelphia, Pa.

Mesker & Bro., 421 S. 6th St., St. Louis, Mo.

Mullins Co., W. H., 342 Franklin St., Salem, O.

New York Blower Co., Chicago, Ill.

Sturtevant Co., B. F., Hyde Park, Mass.

Van Noorden Co., E., 950 Mass. Ave., Boston.

Vises

Scully Steel & Iron Co., Chicago, Ill.

Wagon Forgings and Whiffletrees

Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.

Wagon Loaders

Indiana Road Machine Co., Fort Wayne, Ind.

Wagons (Asphalt)

Graver Tank Works, Wm., E. Chicago, Ind.

Wagons (Contractors')

Avery Mfg. Co., Peoria, Ill.

Black Mfg. Co., 124-128 E. Ohio St., Chicago.

Climax Road Machine Co., Marathon, N. Y.

Columbia Wagon Co., Columbia, Pa.

Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.

Glen Wagon Co., 40-50 Oak St., Seneca Falls, N. Y.

Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.

Mention the "Record" when writing.

Indiana Road Machine Co., Fort Wayne, Ind.
Koppel Co., Arthur, 1601 Machesney Bldg.,
Pittsburg, Pa.
McCoy Co., Henry J., 65-67 Dey St., N. Y.
Perrin, Seamans & Co., 57 Oliver St., Boston.
Pittsburg Tubular Steel Whiffletree Co., Pitts-
burg, Pa.
Shaw Co., Willis, 171 La Salle St., Chicago, Ill.
Studebaker Bros. Mfg. Co., South Bend, Ind.
Troy Wagon Works Co., The, Troy, Ohio.
Watson Wagon Co., Canastota, N. Y.

Wagons (Dumping)

Bergen Point Iron Works, 149 B'way, N. Y.
Eagle Wagon Works, The, Auburn, N. Y.
Watson Wagon Co., Canastota, N. Y.

Wagons (Farm)

Studebaker Bros. Mfg. Co., South Bend, Ind.

Wagons (Garbage)

Studebaker Bros. Mfg. Co., South Bend, Ind.

Wagons (Oil)

Graver Tank Works, Wm., E. Chicago, Ind.

Wagons (Tar)

Graver Tank Works, Wm., E. Chicago, Ind.

Wall Coping (Salt-Glazed)

Patton Clay Mfg. Co., Patton, Pa.

Wall Coping (Vitrified)

Robinson Clay Product Co. of New York,
Flatiron Bldg., New York.

Wall Coping (Vitrified Clay)

Patton Clay Mfg. Co., Patton, Pa.

Washers (Air)

New York Blower Co., Chicago, Ill.

Water Columns

Kalamazoo Railway Supply Co., Kalamazoo,
Mich.

Water Columns (Railway)

U. S. Wind Engine & Pump Co., 280 Water
St., Batavia, Ill.

Water Gates and Windlasses

Bacon, Earle C., Havemeyer Bldg., New York.

Water-Power Construction

Foundation Co., The, 115 B'way, New York.

Water-Power Plants and Equip- ment

Allis-Chalmers Co., Milwaukee, Wis.
American Spiral Pipe Works, 14th St. and
48th Ave., Chicago, Ill.
Coldwell-Wilcox Co., Newburgh, N. Y.
D'Olier Engineering Co., 121 S. 11th St., Phila.
Excelsior Wooden Pipe Co., St. Paul Bldg.,
New York.
Lombard Iron Works & Supply Co., Augusta,
Ga.

Mention the "Record" when writing.

National Water Main Cleaning Co., 27 William St., New York.
National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.
Smith Co., S. Morgan, York, Pa.
Struthers-Wells Co., Warren, Pa.

Waterproofing

Bayer, J. C., Front and Market Sts., Portland, Ore.
Dow & Smith, 24-26 E. 21st St., New York.
Elaterite Paint & Mfg. Co., Des Moines, Ia.
Hydrex Felt & Engineering Co., 120 Liberty St., New York.
Johns-Manville Co., H. W., 100 Wm. St., N. Y.
Koch & Co., Theodore F., 79 Dearborn St., Chicago, Ill.
Miller & Co., Clifford L., 110 E. 23d St., N. Y.
Sicilian Asphalt Paving Co., The, 41 Park Row, New York.
Standard Asphalt & Rubber Co., 944 First Nat'l Bank Bldg., Chicago, Ill.
Texas Co., The, 17 Battery Place, New York.
Warner Co., Charles, Wilmington, Del.
Warren-Ehret Co., 1204 Land Title Bldg., Phila., Pa.
Winslow Co., E. J., 138 Jackson Boulevard, Chicago, Ill.

Waterproofing Compounds

Bayer, J. C., Front and Market Sts., Portland, Ore.
Elaterite Paint & Mfg. Co., Des Moines, Ia.
Hydrex Felt & Engineering Co., 120 Liberty St., New York.
Johns-Manville Co., H. W., 100 Wm. St., N. Y.
Miller & Co., Clifford L., 110 E. 23d St., N. Y.
Standard Asphalt & Rubber Co., 944 First National Bank Bldg., Chicago, Ill.
Texas Co., The, 17 Battery Place, New York.

Water Screens

Coffin Valve Co., Boston, Mass.

Water Softeners

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.
Graver Tank Works, Wm., E. Chicago, Ind.
New York Cont. Jewell Filter Co., 15 Broad St., New York.
Pittsburg Filter Mfg. Co., Farmers Bank Bldg., Pittsburg, Pa.
Scaife & Sons Co., Wm. B., Pittsburg, Pa.

Water Storage

Graver Tank Works, Wm., E. Chicago, Ind.

Water Supply Systems

Presler Prospecting & Engineering Co., Cincinnati, Ohio.

Mention the "Record" when writing.

Water Tanks (Steel)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Water Tanks (Wood)

Kalamazoo Railway Supply Co., Kalamazoo, Mich.

Water Well Driving

Preslar Prospecting & Engineering Co., Cincinnati, Ohio.

Waterworks (Air Pressure)

Abenaque Machine Works, Westminster Station, Vt.

American Well Works, Aurora, Ill.

Douglas, W. & B., Middletown, Conn.

Preslar Prospecting & Engineering Co., Cincinnati, Ohio.

U. S. Cast Iron Pipe & Foundry Co., 71 B'way, New York.

Waterworks Construction

Foundation Co., The, 115 B'way, New York.

Waterworks Goods

Coldwell-Wilcox Co., Newburgh, N. Y.

Edson Mfg. Co., 255-257 Atlantic Ave., Boston.

Excelsior Wooden Pipe Co., St. Paul Bldg., New York.

Leadite Co. of America, 1215 Filbert St., Phila.

National Wood Pipe Co., 404 Equitable Bank Bldg., Los Angeles, Cal.

Pittsburg Filter Mfg. Co., Farmers Bank Bldg., Pittsburg, Pa.

Simplex Valve & Meter Co., 112 N. Broad St., Philadelphia, Pa.

Smith Mfg. Co., A. P., Passaic Ave., Newark, N. J.

U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Waterworks Goods (Cars)

Youngstown Car Mfg. Co., The, Youngstown, Ohio.

Waterworks Goods—Pipe (Wood)

American District Steam Co., Lockport, N. Y.

American Well Works, Aurora, Ill.

Chicago Bridge & Iron Works, Washington Heights Station, Chicago, Ill.

Weighing Machinery

Osgood Scale Co., Binghamton, N. Y.

Richardson Scale Co., 3 Park Row, N. Y.

Welding (Electric)

Goff, Horner & Co., "Ltd.," Frick Bldg., Pittsburg, Pa.

Welding Sets

C. & C. Electric Co., The, Garwood, N. J.

Well-Drilling Machinery

American Test Boring & Drilling Co., 32 B'way, New York.

Mention the "Record" when writing.

American Well Works, Aurora, Ill.
 Artesian Well & Supply Co., Dyer and Friendship Sts., Providence, R. I.
 Broderick & Bascom Rope Co., St. Louis, Mo.
 Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Dean Bros. Steam Pump Works, Indianapolis, Ind.
 Douglas, W. & B., Middletown, Conn.
 Keystone Driller Co., Beaver Falls, Pa.
 Pittsburg Tubular Steel Whiffletree Co., Pittsburg, Pa.
 Presler Prospecting & Engineering Co., Cincinnati, Ohio.
 Union Steam Pump Co., Battle Creek, Mich.
 U. S. Wind Engine & Pump Co., 280 Water St., Batavia, Ill.

Wheelbarrows

Bergen Point Iron Works, 149 B'way, N. Y.
 Chicago Concrete Machinery Co., 20 S. Canal St., Chicago, Ill.
 Contractors Supply & Equipment Co., 305 Old Colony Bldg., Chicago, Ill.
 Koehring Machine Co., Milwaukee, Wis.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 McCoy Co., Henry J., 65-67 Dey St., N. Y.
 Perrin, Seamans & Co., 57 Oliver St., Boston.
 Ransome Concrete Machinery Co., Dunellen, N. J.
 Sterling Wheelbarrow Co., Milwaukee, Wis.
 Stuebner Iron Works, G. L., foot of 12th St., Long Island City, N. Y.
 Union Iron Works, The, Hoboken, N. J.

Wheels (Car)

Chandler, Geo. M., 42-9 N. Illinois St., Indianapolis, Ind.
 Douglas, Geo. B., 29 B'way, New York.
 Hough Co., William B., 1336-7 Monadnock Block, Chicago, Ill.
 Kalamazoo Railway Supply Co., Kalamazoo, Mich.
 Koppel Co., Arthur, 1601 Machesney Bldg., Pittsburg, Pa.
 Lombard Iron Works & Supply Co., Augusta, Ga.
 Prosser & Sons, Thos. ("Krupp"), 15 Gold St., New York.
 Union Iron Works, The, Hoboken, N. J.
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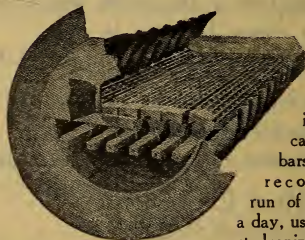
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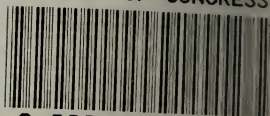
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